SEATTLE APPROACH CONTROL (S46) CONCURRENT OPERATIONS TO BOEING FIELD (BFI) AND SEATTLE-TACOMA INTERNATIONAL AIRPORT (SEA)

The purpose of this Notice is to inform pilots landing/departing from either Boeing Field / King County International Airport (BFI) or Seattle-Tacoma International Airport (SEA) under instrument flight rules (IFR) concerning the special use of visual separation to maintain efficiency at both airports.

Sequencing aircraft simultaneously to BFI and SEA under IFR requires lateral and/or vertical separation between aircraft while ensuring protected airspace for potential missed approaches. These requirements directly affect the capacity of both airports.

BFI field elevation is 21 feet MSL and SEA field elevation is 433 feet MSL. BFI is located 4.5 nautical miles north of SEA. The convergence and divergence of flight paths has made it possible to utilize visual separation under certain weather conditions, which reduces the spacing normally provided to aircraft landing and departing SEA and BFI. In a south flow, the ILS approach to BFI Runway 14R/L converges with the ILS approaches to SEA Runways 16R/C/L directly over BFI. In a north flow, the departure paths for aircraft departing north at both airports diverge directly over the north end of BFI Runway 32L.

INFORMATION:

When weather/operational conditions permit, BFI Tower controllers will provide visual separation during the following operations:

IFR arrivals to BFI Runways 14R/L and SEA arrivals Runways 16L/C/R

IFR departures from BFI Runways 32L/R and IFR departures from SEA Runways 34L/C/R

When weather/operational conditions permit, SEA Tower controllers will provide visual separation during the following operations:

IFR arrivals to BFI Runways 32L/R and IFR departures from SEA Runways 34L/C/R

These procedures have proven to provide an equivalent level of safety compared to standard visual separation rules. The special use of visual separation procedures enables both airports to operate at or near capacity during periods of heavy demand.

If you have any questions or concerns, please contact the manager or designee of one of the facilities listed below during normal business hours.

Seattle Terminal Radar Approach Control: (206) 214-4600
Seattle Airport Traffic Control Tower: (206) 214-2500
Boeing Field Airport Traffic Control Tower: (206) 685-6400

VFR ADVISORY AREA Canadian Airspace VICTORIA-VANCOUVER (Effective: Until Further Notice)

Effective 0901 UTC August 6, 1994, a VFR Advisory Area was permanently established between the two Canadian control zones, from above 1,200 MSL up to 2,500 MSL. Vancouver and Victoria Towers provide radar traffic information to all participating aircraft within the VFR Advisory Area.

PROCEDURES

Victoria/Vancouver

- *All aircraft operating between Victoria and Vancouver within the VFR Advisory Area should follow the routes shown on the graphic.
- *Northbound: Change from Victoria Tower, 119.1, to Vancouver Tower, 124.0, when instructed by ATC.
- *Southbound: Change from Vancouver Tower, 124.0, to Victoria Tower, 119.1, when instructed by ATC.
- *Set transponder codes as requested.

TRANSITING TRAFFIC

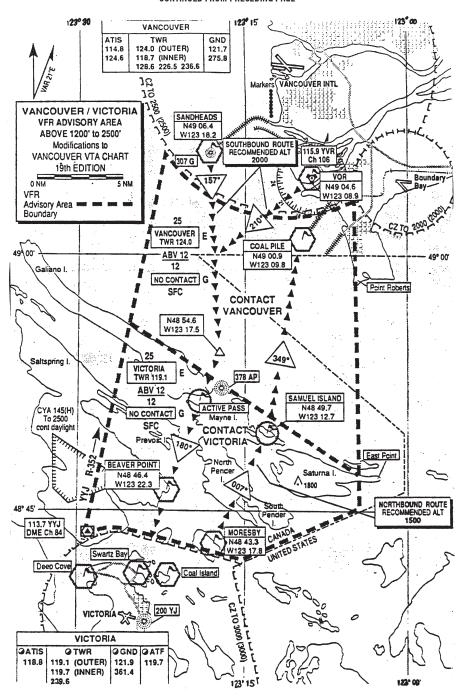
- *Call Vancouver Tower on 124.0 when north of the Active Pass/Samuel Island Line.
- *Call Victoria Tower on 119.1 when south of the Active Pass/Samuel Island Line.
- *Set Transponder codes as requested.

Routes and recommended altitudes will not be usable by all aircraft at all times because of weather and regulations pertaining to flight over water. Higher altitudes may be requested. If unable to maintain VFR, advice ATC.

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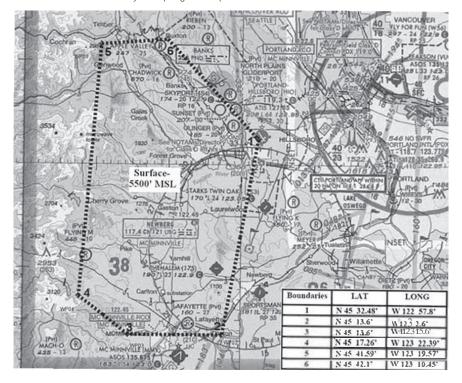
SPECIAL NOTICES

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INTENSIVE FLIGHT TRAINING IN VICINITY OF PORTLAND-HILLSBORO AIRPORT HILLSBORO, OR

Intensive flight training activity in areas S to NW of the Portland-Hillsboro Airport within 25 NM at or below 5500 MSL. These areas are in use from sunrise to sunset daily. Participating aircraft reports on 122.75.



ADVISORY FOR SW TO NW VFR DEPARTURES ASHLAND. OR

Use caution when departing Ashland Municipal Airport (S03) on a SW to NW heading when aircraft are arriving Runway 32 at Medford Airport (MFR). This scenario often puts aircraft in direct conflict creating a safety concern for the National Airspace System. Many aircraft are overflying Interstate 5 to take advantage of the valley. This makes the airspace over Ashland Airport congested and potentially dangerous. Prior to departure, S03 pilots are encouraged to monitor MFR ATIS on frequency 127.25. When Medford Runway 32 is in use, Ashland departures could be in close proximity to MFR arrivals. If conditions allow, depart on runway heading or remain east of I-5 and contact Cascade Approach on 124.3 for traffic advisories.

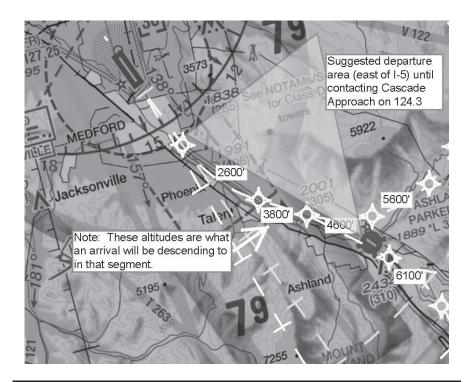
Frequencies: CASCADE APPROACH 124.3, MFR ATIS 127.25, MFR TOWER 119.4

Suggested best practices:

- o Monitor MFR ATIS for runway in use.
- o Use caution if RWY 32 is in use at MFR.
- o SO3 departures, flying SW to NW recommend runway heading or east of I-5 and contact Cascade Approach for traffic advisories
- o Avoid flying directly over the interstate. Suggest offsetting a mile or more to the east.
- o Maintain VFR

For inquiries ctc Cascade Approach Control 541-482-7675

Effective 22 APR 2021 to 15 JUN 2023



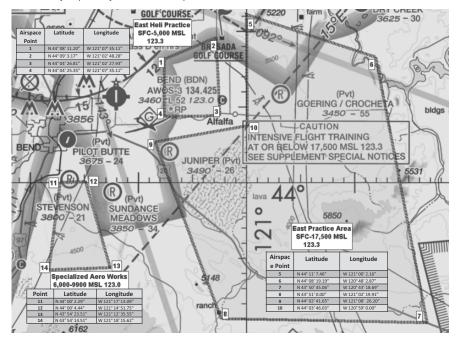
INTENSIVE FLIGHT TRAINING IN THE VICINITY OF BEND AIRPORT, BEND, OR

"East Heli Practice" area: Intensive helicopter flight training activity in the area east of Bend Airport from the surface to 5,000 MSL. Participating aircraft report on 123.3.

"East Practice Area": Intensive small aircraft and helicopter flight training activity east and south of the Bend airport within 25 NM from the surface to 10,000 MSL. Turbine instruction and flight testing in vicinity of the East Practice Area from 10,000 to 17,500 MSL. These areas are in use from sunrise to sunset daily. Participating aircraft reports on 123.3.

"Specialized Aero Works" area: Aerobatic training 6,000-10,000 MSL. Participating aircraft reports on 123.0.

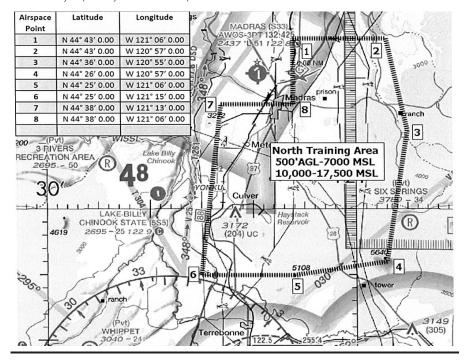
Office of Primary Responsibility: Seattle ARTCC Airspace and Procedures 253-351-3558.



INTENSIVE FLIGHT TRAINING IN THE VICINITY OF MADRAS AIRPORT, MADRAS, OR

Intensive small aircraft flight training activity in the area south and east of the Madras Airport within 17 NM at or below 7,000 MSL. Turbine instruction and flight testing in vicinity of the North Practice Area primarily from 10,000 to 17,500 MSL. These areas are in use from sunrise to sunset daily. Participating aircraft reports on 123.5.

Office of Primary Responsibility: Seattle ARTCC Airspace and Procedures 253-351-3558.



Special Flight Rules Area Pearson Field Airport (VUO) Vancouver, Washington

Pearson advisory service is provided by Portland Tower (PDX) on frequency 119.0. The purpose of the advisory service is to provide traffic advisories to pilots operating to/from Pearson Field. "Pearson Advisory" does not control VFR aircraft on Pearson Field or in the SFRA. However, pilots are required to establish and maintain communications with Pearson Advisory on 119.0.

Pilots should exercise caution when arriving and departing VUO due to the close proximity of Portland International Airport (PDX)

<u>Aircraft Operations</u> – FAR 93.163 Regulatory Information

- Obtain the weather (ASOS 135.125) prior to contacting Pearson Advisory.
- Establish two-way radio contact with Pearson Advisory on 119.0:
 - a. Inbound to Pearson Field (or transitioning through SFRA) before entering SFRA (see chart below).
 - Departing Pearson Field- prior to taxiing onto the runway.
- After initial contact, continue to monitor 119.0 while in the SFRA.
- 4. Remain outside Portland Class C airspace.
- 5. Make a right traffic pattern when operating to/from Pearson Field Runway 26.
- When operating over the runway or extended runway centerline of Pearson Field Runway 8/26 maintain an altitude at or below 700 feet above mean sea level.
- 7. Two-way communications failure in flight
 - a. VFR aircraft if ASOS indicates VFR conditions, continue inbound and land
 - b. IFR aircraft comply with FAR 91.185

VUO Airport Recommended Procedures

Departing pilots: After receiving weather and ready to depart, contact Pearson Advisory. Advise you have the weather and your intentions:

Example: "Pearson Advisory, N6776G at runway eight, departing northwest bound with the Pearson weather."

IFR Pilots: Use Pearson Advisory 119.0 to request clearance and IFR release from VUO.

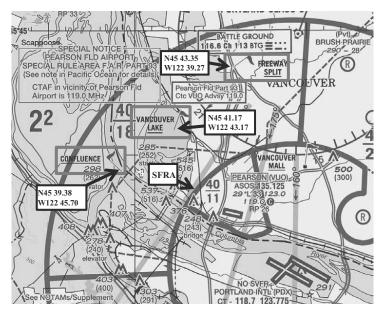
Arriving Pilots: After receiving weather, contact Pearson Advisory at least five miles from VUO with your position and intentions.

Example: "Person Advisory, N993MM over Vancouver Lake, inbound runway eight with the Pearson weather."

The geographical reporting points of Vancouver Lake, the Freeway Split, and the Confluence are commonly used (see attached chart). Pilots can expect Pearson Advisory to issue traffic and wake turbulence advisories on PDX traffic and instruction to remain outside Portland Class C airspace. Pilots can also expect to be advised of the current direction of the PDX traffic flow and should when safe, operate in the same direction as the PDX flow.

After initial contact with Pearson Advisory, pilots should resume broadcasting their position and intentions on CTAF (119.0) as they would at any uncontrolled airport.

Example - "Pearson traffic, Experimental 18LM turning base runway eight."



CONTROLLED FIRING Fort Harrison Controlled Firing Area Helena, Montana

Controlled firing occurs in the vicinity of the Helena, Montana VORTAC (HLN) 24 hours daily, 5'800 MSL and BELOW. The area defined by the following radial/DME coordinates HLN258008, HLN258005, HLN250008, HLN250005.

Limestone Hills Controlled Firing Area Helena. Montana

Controlled firing occurs in the vicinity of the Helena, Montana VORTAC (HLN) 24 hours daily, FL180 and BELOW. The area defined by the following radial/DME coordinates HLN125026, HLN127028, HLN140025, HLN125028.

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area: 123.45 MHz
Caribbean area: 123.45 MHz
Pacific area: 123.45 MHz

MOUNT ST. HELENS NATIONAL VOLCANIC MONUMENT, WASHINGTON

The U.S. Geological Survey (USGS) and the U.S. Forest Service (USFS) conduct low level flights to and from monitor station within the monument and within the crater itself. Due to this activity, the volatility of the volcano and a high volume of sightseeing flights in the area, the following procedures are recommended in the interest of flying safety.

- 1. VFR aircraft are encouraged to transmit an initial position report on 122.75 MHz in the blind when flying at altitudes of less than 10,000 feet MSL within 10 nautical miles of the Mount St. Helens volcano crater.
- 2. VFR flight below 3000 feet AGL strongly not recommended.
- VFR flight above 3000 feet AGL fly a counterclockwise pattern, no closer than 3 miles to the volcano summit.

VFR rules of "see and be seen" and good airmanship practices will prevail. Approval to land can only be obtained through appropriate Federal or State authority. Any significant information will be available on the Portland and Seattle ATIS. Marginal radar coverage limits Seattle Center's ability to provide radar flight following to aircraft in orbit of the volcano.

DEVILS TOWER NATIONAL MONUMENT, WYOMING

For reasons of national welfare, pilots are requested to avoid flights within 3 nautical miles of Devils Tower National Monument.

BIRD HAZARD OREGON AND WASHINGTON

Heavy concentration of migratory and wintering flocks of large waterfowl from the Canadian to California borders annually November to May. Caution advised at all airports or while transiting area.

SEATTLE-TACOMA INTL SEATTLE, WASHINGTON

Gatehold Procedures:

During peak departure periods, gatehold procedures are implemented for all IFR departures. Additional information will be broadcast on ATIS

Oceanic Departures:

- 1. Contact Clearance Delivery only when you will be ready to taxi within ten minutes. State destination, requested altitude, "ten minutes to taxi."
- 2. If ATC delays are more than 15 minutes for your filed altitude/route, alternatives with less delay will be offered.
- 3. Failure to depart the gate within ten minutes or reach the runway at the release time specified in the IFR clearance may result in the cancellation of your clearance.

MOUNTAIN HOME, IDAHO

All aircraft operating within 25 NM southwest of V-4, V-330, and V-253 are requested to contact Mountain Home approach on 124.8 for traffic advisories due to intensive military training in the Mountain Home Area.

For further information contact Mountain Home RAPCON 208-828-6069.

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT LANDING RESTRICTIONS

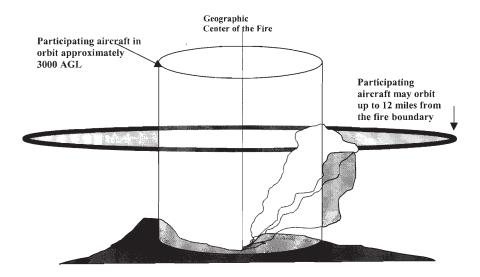
Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or water administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

Night Vision Lights Out Operations Hays MOA, Montana

Lights—out night vision goggle training operations conducted within the Hays MOA at all altitudes from sunset to sunrise when MOA is active by NOTAM. Contact Salt Lake City ARTCC on 133.4 or 119.75 or check the Federal NOTAM System (FNS) website (https://notams.aim.faa.gov/notamSearch/) or contact Flight Service for schedule and NOTAM information.

FIREFIGHTING TRAFFIC AREAS



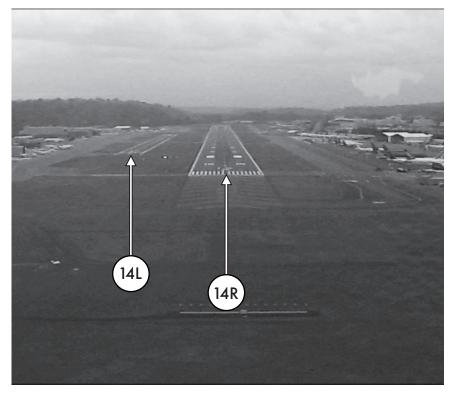
Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

BOEING FIELD/KING COUNTY INTERNATIONAL AIRPORT (BFI) ARRIVAL ALERT

Landing Southeast RWY 14L and RWY 14R



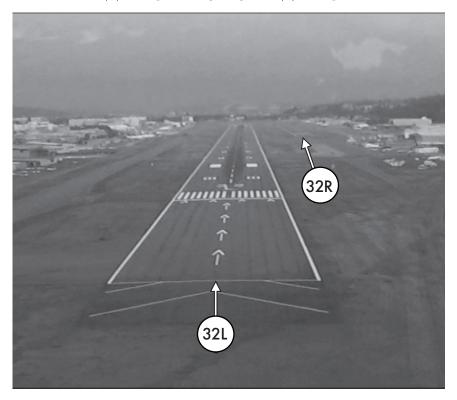
Off-set Parallels.

Pilots be aware that RWY 14L displaced threshold is approximately 1522 feet farther down the approach than RWY 14R.

Not for Navigational Purposes For Situational Awareness Only

BOEING FIELD/KING COUNTY INTERNATIONAL AIRPORT (BFI) ARRIVAL ALERT

Landing Northwest RWY 32L and RWY 32R



Off-set Parallels.

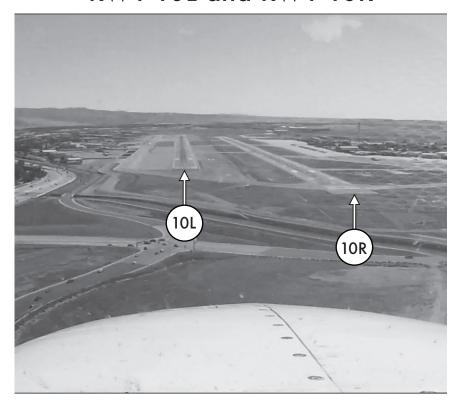
Pilots be aware that RWY 32R displaced threshold is approximately 4527 feet farther down the approach than RWY 32L displaced threshold.

Not for Navigational Purposes For Situational Awareness Only

Office of Primary Responsibility (OPR): ATO, Runway Safety Contact Information: (202) 856-1942 Original: January 2024

BOISE AIR TERMINAL/GOWEN FIELD AIRPORT (BOI) ARRIVAL ALERT

Landing East RWY 10L and RWY 10R

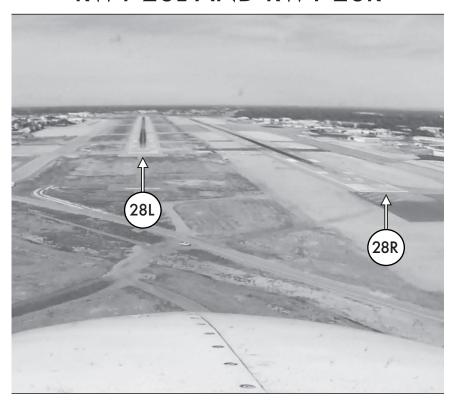


Use caution for closely aligned parallel runways with offset thresholds.

Not for Navigational Purposes For Situational Awareness Only

BOISE AIR TERMINAL/GOWEN FIELD AIRPORT (BOI) ARRIVAL ALERT

Landing West RWY 28L AND RWY 28R



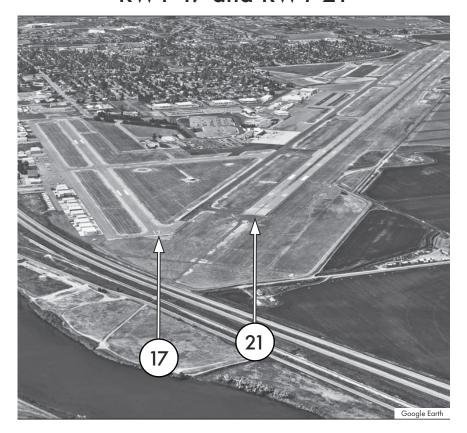
Use caution for closely aligned parallel runways with offset thresholds.

Not for Navigational Purposes For Situational Awareness Only

Office of Primary Responsibility (OPR): ATO, Runway Safety Contact Information: (202) 856-1942 Original: January 2024

IDAHO FALLS RGNL (IDA) ARRIVAL ALERT

Landing Southwest RWY 17 and RWY 21



Pilots confuse RWY 17 for RWY 21.

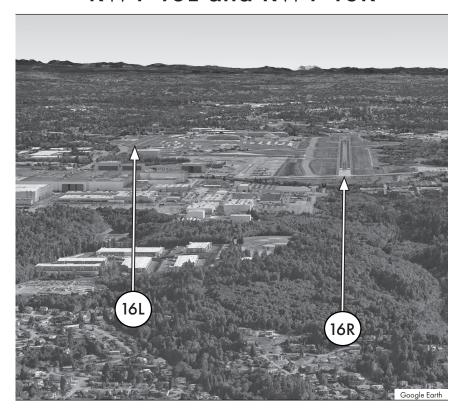
Not for Navigational Purposes For Situational Awareness Only

Office of Primary Responsibility (OPR): ATO, Runway Safety Contact Information: (202) 856-1942

Amended: January 2024

PAINE FIELD AIRPORT (PAE) ARRIVAL ALERT

Landing Southeast RWY 16L and RWY 16R

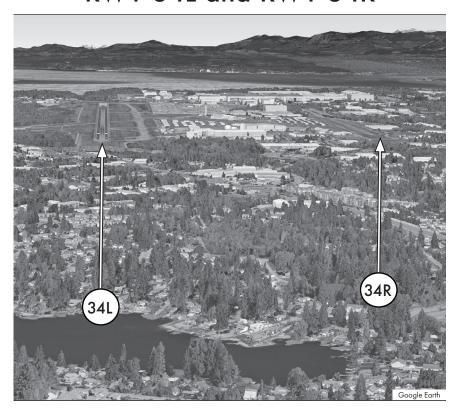


Offset parallels. Pilots be aware that RWY16L is approximately 5,600 feet farther down the approach than RWY 16R and is located approximately 3,350 feet from RWY centerline to RWY centerline.

Not for Navigational Purposes For Situational Awareness Only

PAINE FIELD AIRPORT (PAE) ARRIVAL ALERT

Landing North RWY 34L and RWY 34R



Offset parallels. Pilots be aware that RWY 34R is approximately 570 feet farther down the approach than RWY 34L and is located approximately 3,350 feet from RWY centerline to RWY centerline.

Not for Navigational Purposes For Situational Awareness Only

Office of Primary Responsibility (OPR): ATO, Runway Safety Contact Information: (202) 856-1942 Original: January 2024

PORTLAND-HILLSBORO AIRPORT AIRPORT (HIO) ARRIVAL ALERT

Landing Southeast RWY 13L and RWY 13R



Off-set Parallels. Pilots be aware that RWY 13L is approximately 250 feet farther down the approach than RWY 13R.

Not for Navigational Purposes For Situational Awareness Only

PORTLAND-HILLSBORO AIRPORT AIRPORT (HIO) ARRIVAL ALERT

Landing Northwest RWY 31R and RWY 31L



Off-set Parallels. Pilots be aware that RWY 31R is approximately 2750 feet farther down the approach than RWY 31L.

Not for Navigational Purposes For Situational Awareness Only

Office of Primary Responsibility (OPR): ATO, Runway Safety Contact Information: (202) 856-1942 Original: January 2024

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS Kennedy, LaGuardia, and Washington Reagan National

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93–1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at http://www.faa.gov. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll–free telephone number for accessing e–CVRS is 1–800–875–9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll–free areas may access e–CVRS by calling the toll number of 703–707–0568. The Internet web address for accessing the e–CVRS is http://www.fly.faa.gov/ecvrs. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904–4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904–4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

FSS TELEPHONE NUMBERS

Flight Service Station (FSS) facilities process flight plans and provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a contract provider at two large facilities. In Alaska, FSS services are delivered through a network of three hub facilities and 14 satellite facilities, some of which operate part—time and some are seasonal. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

FLIGHT RESTRICTED ZONE FLIGHTS

Pilots wishing to fly within the Flight Restricted Zone (FRZ) must call the Washington ARTCC Flight Data Unit at 703–771–3476.

FAA TELEPHONE NUMBERS AND NWS KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number......540-422-4100

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #	**CLEARANCE DELIVERY TELEPHONE #
Albuquerque	817–222–5006	7:30 a.m4:00 p.m.	505-856-4300	505-856-4561
Anchorage	907-271-5936	7:30 a.m4:00 p.m.	907-269-1137	
Atlanta	404-305-5180	7:30 a.m5:00 p.m.	770-210-7601	770-210-7692
Boston	404-305-5156	7:30 a.m4:00 p.m.	603-879-6633	603-879-6859
Chicago	817-222-5006	8:00 a.m4:00 p.m.	630-906-8221	630-906-8921
Cleveland	817-222-5006	8:00 a.m4:00 p.m.	440-774-0310	440-774-0490
Denver	206-231-2099	7:30 a.m4:00 p.m.	303-342-1600	303-651-4257
Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	817-858-7500	817-858-7584
Honolulu	310-725-3300	7:30 a.m4:00 p.m.	808-840-6100	808-840-6201
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-5300	281-230-5622
Indianapolis	817-222-5006	8:00 a.m4:00 p.m.	317-247-2231	317-247-2411
Jacksonville	404-305-5180	8:00 a.m4:30 p.m.	904-549-1501	904-845-1592
Kansas City	817-222-5006	7:30 a.m4:00 p.m.	913-254-8500	913-254-8508
Los Angeles	661-265-8200	7:30 a.m4:00 p.m.	661-265-8200	661-575-2079
Memphis	404-305-5180	7:30 a.m4:00 p.m.	901-368-8103	901-368-8453
Miami	404-305-5180	7:00 a.m3:30 p.m.	305-716-1500	305-716-1731
Minneapolis	817-222-5006	8:00 a.m4:00 p.m.	651-463-5580	651-463-5588
New York	718-995-5426	8:00 a.m4:40 p.m.	631-468-1001	631-468-1425
Oakland	310-725-3300	6:30 a.m3:00 p.m.	510-745-3331	
Salt Lake City	206-231-2099	7:30 a.m4:00 p.m.	801-320-2500	801-320-2568
San Juan	404-305-5180	7:30 a.m5:00 p.m.	787-253-8663	787-253-8664
Seattle	206-231-2099	7:30 a.m4:00 p.m.	253-351-3500	253-351-3694
Washington	718-995-5426	8:00 a.m4:30 p.m.	703-771-3401	703-771-3587

^{*}Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	678–364–6131	7:00 a.m3:30 p.m.	678–364–6000
Chicago	817-222-5006	8:00 a.m4:00 p.m.	847-608-5509
Dallas-Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m3:30 p.m.	916-366-4001
Potomac	718-995-5426	8:00 a.m4:30 p.m.	540-349-7500
Southern CA	310-725-3300	7:30 a.m4:00 p.m.	858-537-5800

^{*}Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

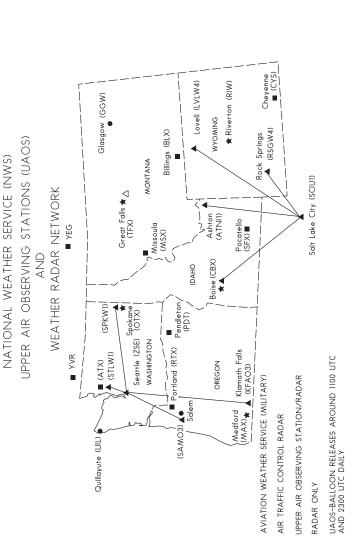
^{**}For use when numbers or frequencies are not listed in the airport listing

FAA TELEPHONE NUMBERS AND NWS KEY AIR TRAFFIC FACILITIES

DAILY NAS REPORTABLE AIRPORTS

	*24 HR RGNL		
AIRPORT NAME	DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m4:30 p.m.	301-735-2380
Baltimore/Washington			
Intl Thurgood Marshall, MD	718–995–5426	8:00 a.m4:30 p.m.	410-962-3555
Boston Logan Intl, MA	404–305–5156	7:30 a.m.–4:00 p.m.	617–455–3100
Bradley Intl, CT	404–305–5156	7:30 a.m. –4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.–5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC Chicago Midway, IL	404–305–5180 817–222–5006	8:00 a.m. 4:30 p.m.	704–344–6487 773–884–3670
Chicago O'Hare Intl, IL	817–222–5006	8:00 a.m4:00 p.m. 8:00 a.m4:00 p.m.	773-664-3670
Cleveland Hopkins Intl, OH	817–222–5006	8:00 a.m4:00 p.m.	216-352-2000
Covington/Cincinnati, OH	817-222-5006	8:00 a.m4:30 p.m.	859-372-6440
Dallas–Ft. Worth Intl, TX	817–222–5006	8:30 a.m.–5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	817–222–5006	7:30 a.m.–4:00 p.m.	937-415-6800
Denver Intl, CO	425–227–1389	7:30 a.m.–4:00 p.m.	303-342-1600
Detroit Metro, MI	817–222–5006	8:00 a.m4:00 p.m.	734–955–5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.–4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404–305–5180	7:00 a.m.–3:30 p.m.	305–356–7932
George Bush	101 000 0100	7.00 a 0.00 p	000 000 7502
Intercontinental/Houston, TX	817-222-5006	7:30 a.m4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	678-364-6131	7:00 a.m3:30 p.m.	404-559-5800
Honolulu (Daniel K Inouye Intl), HI	310-725-3300	7:30 a.m4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m5:00 p.m.	713-847-1400
Indianapolis Intl, IN	817-222-5006	8:00 a.m4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-725-3300	7:30 a.m4:00 p.m.	808-877-0725
Kansas City Intl, MO	817-222-5006	7:30 a.m4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	817-222-5006	8:00 a.m4:00p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	7:30 a.m4:00 p.m.	973-565-5000
Norman Y. Mineta San Jose Intl, CA	310-725-3300	7:30 a.m4:00 p.m.	408-982-0750
Ontario Intl, CA	310-725-3300	7:30 a.m4:00 p.m.	909-983-7518
Orlando Intl, FL	404–305–5180	7:30 a.m5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-725-3300	7:30 a.m4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718–995–5426	8:00 a.m4:30 p.m.	412–269–9237
Portland Intl, OR	425–227–1389	7:30 a.m4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404–305–5180	8:00 a.m4:30 p.m.	919–380–3125
Ronald Reagan Washington	710 005 5406	0.00	700 410 0000
National, DC	718–995–5426	8:00 a.m4:30 p.m.	703-413-0330
Salt Lake City, UT	425–227–1389	7:30 a.m.–4:00 p.m.	801–325–9600
San Antonio Intl, TX	817–222–5006	8:00 a.m4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.–4:30 p.m.	619–299–0677
San Francisco Intl, CA	310-725-3300	7:00 a.m.–3:30 p.m.	650-876-2883
San Juan Intl, PR	404–305–5180	7:30 a.m. –5:00 p.m.	787–253–8663
Seattle-Tacoma Intl, WA	425–227–1389	7:30 a.m. 4:00 p.m.	206-768-2900
St. Louis Lambert, MO	817-222-5006	7:30 a.m. 4:00 p.m.	314-890-1000
Tampa Intl, FL	404–305–5180	7:30 a.m. 4:00 p.m.	813–371–7700
Ted Stevens Anchorage Intl, AK	907–271–5936	7:30 a.m4:00 p.m.	907–271–2700
Teterboro, NJ	718-995-5426	8:00 a.m. 4:30 p.m.	201–288–1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m4:30 p.m.	571-323-6375
West Palm Beach, FL Westchester Co, NY	404–305–5180 718–995–5426	8:00 a.m4:30 p.m. 8:00 a.m4:30 p.m.	561–683–1867 914–948–6520
Westerester ou, INT	/10-990-0420	0:00 a.iii4:30 p.iii.	314-340-0020

^{*}Facilities can be contacted through the Rgnl Duty Officer during non-business hours.



NOTE: FOR RELEASE LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN ARRONAUTICAL INFORMATION MESSAGE WILL BE FILED.

OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

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Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

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® DENVER CENTER - 121.5 121.5 125.9 243.0 243.0 284.7H-1-2-3-4-5-6, L-8-9-10-11-12-13-14-15, A-2
  Abaio Peak - 125.675 125.35 354.05 257.775
  Abajo Peak/A/ - 127.55
  Ainsworth - 127.95 127.95 121.5 121.5 338.2 338.2
  Akron - 121.5 121.5
  Alamosa - 135.4 132.225 128.375 121.5 121.5 379.95 377.05 354.15
  Aspen - 127.075 125.35 119.85 363.15 354.05 276.4
  Ault - 120.575 227.125
  Brush/A/ - 133.95 133.95 317.55 317.55
  Brush/B/ - 118.475 118.475 225.4 225.4
  Casper - 135.6 133.675 121.5 121.5 363.025 322.5 296.7 243.0 243.0
  Cherokee - 132.1 132.1 254.35 254.35
  Cheyenne - 134.575 133.175 125.9 350.3 307.1 284.7
  Colby - 132.175 127.65 127.65 360.65 360.65 254.325
  Cortez - 118.575 348.7
  Crawford - 135.025 127.95 338.2 296.7 239.05
  Denver - 133.4 132.85 128.65 126.875 377.175 353.65 306.9 296.7 282.2
  Denver/A/ - 126.5 126.5 371.85 371.85
  Denver/B/ - 119.85 119.85 363.15 363.15
  Durango - 118.575 118.575 348.7 348.7
  Eastonville - 128.375 379.95
  Farmington - 133.425 125.675 121.5 121.5 118.575 363.05 348.7 257.775 243.0 243.0
  Goodland - 132.7 132.7 121.5 121.5 379.15 379.15 226.675 226.675
  Grand Island West - 132.7 132.7 296.7 226.675
  Grand Junction - 121.5 121.5
  Grand Mesa - 135.125 135.125 126.725 125.675 323.25 323.25 316.125 296.7 257.775
  Grand Mesa/A/ - 127.1
  Grand Mesa/B/ - 134.5 134.5 327.8 327.8
  Gunnison - 133.525 127.075 124.5 350.25 319.0 276.4
  Hanksville - 127.55 127.55 256.875
  Haxton - 120.575 227.125
  Hayden - 128.325 120.475 377.075 235.975
  Hayes Center - 127.025 127.025 288.35 288.35
  Hill City - 132.7 132.7 226.675 226.675
  Kremmling - 128.65 282.2
  La Junta - 133.4 132.225 379.95 377.175 370.925 354.15 346.25 243.0 243.0
  Lamar - 121.5 121.5
  Laramie - 125.9 125.9 284.7 284.7
  Loveland - 121.5 121.5 243.0 243.0
  Lusk - 135.6 135.6 363.025 363.025
  Medicine Bow - 133.175 132.1 350.3 254.35
  Montrose - 127.1 343.65
  North Platte - 132.7 121.5 121.5 226.675
  O'Neill - 135.025 239.05
  Ogallala - 132.7 126.325 397.85 257.75 226.675
  Pueblo - 128.375 379.95 377.05
  Rapid City - 127.95 127.95 121.5 121.5 338.2 338.2
  Red Table Mtn - 132.85 306.9
  Rifle - 134.95 327.075
  Scottsbluff - 127.95 127.95 121.5 121.5
  Sundance - 135.6 133.675 127.95 363.025 338.2 322.5
  Trinidad - 121.5 121.5
  Tuba City - 132.875 127.55 125.675 118.225 353.95 335.65 296.7 256.875
  Walton Peak - 126.5 126.5 371.85 371.85
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(KZLC)

®SALT LAKE CITY CENTER - 121.5 121.5

H-1-2-3, L-9-11-12-13-14

Ashton - **132.4** 128.35 **338.3** 239.25

Baker - 128.05 121.5 121.5 306.95

Battle Mountain - 132.25 128.725 352.0 338.35 243.0 243.0

Big Pinev - 133.25 128.35 121.5 121.5 239.25

Billings - 127.75 127.75 351.9 351.9

Blackfoot - 128.35 125.925 379.25 364.8 239.25

Bliss - 121.15 118.05 379.1 363.0

Boysen - 133.25 133.25 124.35 364.8 353.5 353.5 285.6 285.6

Bozeman - 132.4 132.4 121.5 121.5 338.3 338.3

Bozeman A - 118.975 226.675

Bryce Canyon - 133.6 121.5 121.5 269.25

Burley - 118.05 363.0

Burns - 121.5 121.5

Butte - 133.4 132.4 132.4 364.8 338.3 338.3 285.4

Cedar City - 125.575 121.5 121.5 379.275 364.8 243.0 243.0

Conner - 121.5 121.5 118.05 363.0

Coppertown - 121.5 121.5 Cut Bank - 121.5 121.5

Delle – 243.0 243.0

Delta – 127.825 125.575 **120.275** 379.275 **269.275** 239.025

Elko - 132.25 128.725 121.5 121.5 364.8 352.0 338.35

Ely - 133.45 121.5 121.5 317.625

Fairfield - 135.775 133.9 127.825 370.85 257.7 239.025

Fort Bridger - 121.5 121.5

Francis Peak - 135.775 127.7 119.95 119.95 377.15 364.8 354.125 257.7

Glasgow - 126.85 121.5 121.5 305.2

Grassy Mountain - 128.55 128.55 269.175 269.175

Great Falls - 133.4 119.75 285.4 251.15

Green River - 124.35 124.35 353.5 353.5

Hanksville - 133.6 269.25 Idaho Falls - 121.5 **121.5**

Jackson - 133.25 133.25 285.6 285.6

Judith Mountain - 133.4 132.425 126.85 121.5 121.5 317.45 305.2 285.4

Lakeside - 127.075 119.75 251.15 244.875

Livingston A - 119.55 235.775

Lovell - 127.75 127.75 351.9 351.9

 $\textbf{Malad City} - 133.8 \ 127.7 \ \textbf{125.925} \ \textbf{379.25} \ 354.125 \ 350.35$

Miles City - 132.425 126.85 121.5 121.5 364.8 317.45 305.2

Miller Peak - 127.075 121.5 121.5 244.875

Miller Peak A - 119.75 119.75

Myton - 135.775 119.95 119.95 377.15 377.15 257.7

Rock Springs 2 - 121.5 121.5

Rome - 128.05 121.15 379.1 306.95

Salmon - 132.4 132.4 121.5 121.5 338.3 338.3

Sheridan - 127.75 127.75 121.5 121.5 351.9 351.9

Squaw Butte - 128.05 121.15 118.05 379.1 364.8 363.0 306.95 269.05 243.0 243.0

Sundance - 126.85 305.2

Sunnyside - 133.9 127.925 370.85 348.725

Tonopah - 134.525 133.45 121.5 121.5 327.05 317.625 243.0 243.0

Watford City - 126.85 305.2

Wilson Creek - 134.525 133.45 127.925 348.725 327.05 317.625

Winnemucca - 132.25 121.5 121.5 364.8 338.35

Worland - 121.5 121.5

® SEATTLE CENTER - 121.5 121.5 243.0 243.0

H-1-3, L-1-2-11-13

(KZSE)

Antelope Mountain - 124.85 306.3

Arcata - 124.85 121.5 121.5 306.3

Badger Mountain - 134.95 134.95 127.05 127.05 121.5 121.5 353.9 353.9 270.3 270.3 243.0 243.0

Beacon Hill - 127.05 127.05 120.3 120.3 353.9 273.6 273.6

Bellingham - 121.5 **121.5**

Cottonwood - 123.95 290.55 Crescent City - 121.5 121.5

Ellensburg - 121.5 121.5 Ephrata - 121.5 121.5

Ferndale - 360.7

Hoquiam - 128.3 121.5 121.5 269.0

Horton - 132.075 127.55 125.8 291.7 257.65 254.35 243.0 243.0 239.0

Kimberly - 135.45 281.4

King Mountain - 135.15 127.55 124.85 360.7 306.3 254.35

Klamath Falls - 134.9 127.6 346.35 263.05

Klickitat - 135.45 126.6 126.6 121.5 121.5 119.65 343.6 343.6 281.4 257.6

Lakeside - 123.95 290.55

Lakeview - 135.35 127.6 346.35 335.55 243.0 243.0

Larch Mountain - 128.3 128.3 126.6 126.6 343.6 343.6 269.0 269.0

Marlin - 126.1 291.6

Mt Brynon – 121.5 121.5 Mullan Pass – 128.45 307.8 Nassel – 124.2 317.6

North Bend - 121.5 121.5

Rainbow Ridge - 135.15 124.85 360.7 306.3

Redmond - 135.35 134.9 128.15 126.15 121.5 121.5 121.35 335.55 279.6 269.475 263.05 257.75

243.0 **243.0**

Rex-Parrett - 121.35 279.6

Scappoose - 128.15 124.2 317.6 257.75

Spokane - 123.95 119.225 335.5 290.55 243.0 243.0

Tatoosh - 125.1 125.1 319.2 319.2 243.0 243.0

Walla Walla - 121.5 121.5

Wallula - 132.6 121.5 121.5 321.3 269.35 243.0 243.0

Wenatchee - 126.1

 $\textbf{Whidbey Island - 134.95} \ \ 125.1 \ \ \textbf{125.1} \ \ 319.2 \ \ \textbf{319.2} \ \ \textbf{270.3}$

Yakima - 132.6 120.3 120.3 273.6 273.6 269.35

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. 'T' indicates transmit only and 'R' indicates receive only. RCO's available at NAVAID's are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

BOISE RADIO

ASHTON RCO 122.2 BLISS RCO 122.4 BOISE RCO 122.6 CASCADE RCO 122.5 COEUR D'ALENE RCO 122.4 CONNOR RCO 122.5 COTTONWOOD RCO 122.2 HAILEY RCO 122.4

IDAHO FALLS RCO 122.55 LEWISTON RCO 122.3 MALAD CITY RCO 122.4 MOUNTAIN HOME RCO 122.6 MULLAN PASS VOR/DME 122.4

POCATELLO RCO 122.3 ROME RCO 122.2 SALMON VOR/DME 122.6 STANLEY RCO 122.6 TWIN FALLS RCO 122.3

CASPER RADIO

BIG PINEY VOR/DME 122.3 BOYSEN RESERVOIR VOR/DME 122.3 CASPER RCO 122.6 CHEROKEE RCO 122.4 CHEYENNE RCO 122.3 CODY RCO 122.3 CRAZY WOMAN VOR/DME 122.2 DOUGLAS RCO 122.4

DUNOIR RCO 122.6 FORT BRIDGER RCO 122.3 GILLETTE RCO 122.3 JACKSON RCO 122.2 LARAMIE VOR/DME 122.6 LUSK RCO 122.3

LARAMIE VOR/DME 122.6 LUSK RCO 122.3 MEDICINE BOW RCO 122.5 NEWCASTLE RCO 122.5 RAWLINS RCO 122.2 RIVERTON RCO 122.2 ROCK SPRINGS RCO 122.2 ROCK SPRINGS VOR/DME 122.6 SHERIDAN RCO 122.5 SHERMAN HILL RCO 122.2

WHEATLAND RCO 122.2 WORLAND RCO 122.4

GREAT FALLS RADIO

BILLINGS RCO 122.3

BOZEMAN VOR/DME 122.5

BUTTE RCO 122.2

COPPERTOWN RCO 122.3

CUT BANK VOR/DME 122.2

DILLON RCO 122.2

DRUMMOND RCO 122.6

GLASGOW RCO 122.4

GLENDIVE DME 122.6

GREAT FALLS RCO 122.3

HARLOWTON RCO 122.4

HAVRE RCO 122.5

HELENA RCO 122.2

JUDITH MOUNTAIN RCO 122.2

LAKESIDE RCO 122.5

LEWISTOWN RCO 122.6

LIVINGSTON RCO 122.2 MILES CITY RCO 122.2

MILLER PEAK RCO 122.2

SIDNEY RCO 122.3

TOWER HILL RCO 122.3

WOLF POINT RCO 122.2

MC MINNVILLE RADIO

ASTORIA RCO 122.3

BAKER CITY RCO 122.4

BURNS RCO 122.5

CAPE BLANCO RCO 122.4

DODSON BUTTE RCO 122.6

ENTERPRISE RCO 122.5

EUGENE RCO 122.3

HOOD RIVER RCO 122.3

KIMBERLY RCO 122.6

KLAMATH FALLS RCO 122.6

LA GRANDE NDB 122.5

LAKEVIEW VORTAC 122.3

MEDFORD RCO 122.2

NEWBERG RCO 122.45 NEWPORT RCO 122.5

NORTH BEND RCO 122.4

ONTARIO RCO 122.3

PENDLETON RCO 122.2

REDMOND RCO 122.5

ROSEBURG VOR/DME 122.55

SALEM RCO 122.6

SEXTON SUMMIT RCO 122.5

SUNRIVER RCO 122.3

SEATTLE RADIO

BADGER MOUNTAIN RCO 122.3

BELLINGHAM RCO 122.15

BUCKHORN MTN RCO 122.2

ELLENSBURG RCO 122.2

EPHRATA RCO 122.2

HOQUIAM RCO 122.2

JUMP-OFF-JOE RCO 122.4

KLICKITAT RCO 122.65

LARCH MOUNTAIN RCO 122.3

MICA PEAK RCO 122.5

MOSES LAKE VOR/DME 122.4

MOUNT CONSTITUTION RCO 122.3

OAK HARBOR RCO 122.4

OMAK RCO 122.2

PAINE RCO 122.2

PORT ANGELES RCO 122.6

PULLMAN VOR/DME 122.6

SEATTLE RCO 122.5

SOUTHWEST WASHINGTON RCO 122.25

SPOKANE RCO 122.2

SPOKANE RCO 122.6

STAMPEDE PASS RCO 122.4

TATOOSH VORTAC 122.5

VANCOUVER RCO 122.35

WALLA WALLA RCO 122.3

WENATCHEE RCO 122.6 YAKIMA RCO 122.5 The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000–3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

IDAHO VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Idaho Falls (Idaho Falls Rgnl)	113.85/IDA	G	208	0.8	At intersection of Twys A and A4.
Twin Falls (Joslin Fld/Magic Valley Rgnl)	113.1/TWF	G	065	8.0	On runup area at apch end Rwy 26.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Boise (Boise Air Terminal-Gowen Field)	116.7	G	

MONTANA VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Bozeman (Bozeman Yellowstone Intl)	112.4/BZN	G	272	0.5	Twy at apch end Rwy 12.
	112.4/BZN	G	145	0.7	Twy H at Twy A.
Great Falls (Great Falls Intl)	115.1/GTF	G	030	2.3	On Twy A between A5 and A6.
	115.1/GTF	G	030	2.9	At intersection of Twy A and A3.
Helena (Helena Rgnl)	117.7/HLN	G	242	0.7	On Twy E on South side of Rwy 27.
Miles City (Frank Wiley Field)	112.1/MLS	G	042	4.2	On twy leading to Rwy 31.
Missoula (Missoula Montana)	112.8/MSO	G	348	0.6	Terminal ramp east of Twy

VOR RECEIVER CHECKPOINTS and VOR TEST FACILITIES

OREGON VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Astoria (Astoria Regional)	114.0/AST	G	156	0.5	East edge of ramp in front of large hangar.
Corvallis (Corvallis Muni)	115.4/CVO	G	049	0.5	On S edge of terminal ramp.
Eugene (Mahlon Sweet Field)	112.9/EUG	G	075		Ramp W of old tower near int of Twy D & Twy K.
Klamath Falls (Crater Lake/Klamath Rgnl)	115.9/LMT	G	298	1.0	On ramp N of Twy E.
Pendleton (Eastern Oregon Rgnl At Pendleton)	114.7/PDT	G	079	3.8	On W diagonal Twy B.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Portland Intl	111.0	G	Unusable on ANG ramp; Twy B east of Twy B6; Twy B west of Rwy 21; Twy C east of Twy C6; Twy C west of C3; Twy D; Twy H.
Portland-Hillsboro	115.2	G	
Rogue Valley Intl-Medford	117.2	G	Unusable on Twy A–6, hangar area W of Twy A–6 and Twy A NW of Twy C.

VOR RECEIVER CHECKPOINTS and VOR TEST FACILITIES WASHINGTON VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Moses Lake (Grant County Intl)	115.0/MWH	G	167	1.2	South Twy A, east of compass rose.
	115.0/MWH	G	194	1.2	On runup area Rwy 04.
	115.0/MWH	G	313	1.0	On runup area Rwy 14L.
Olympia (Olympia Rgnl)	113.4/OLM	G	350	0.3	On E runup area Rwy 17.
Paine (Seattle Paine Fld Intl)	110.6/PAE	G	172	1.16	Intersection Twy A8.
Pasco (Tri-Cities)	113.75/PSC	G	120	0.5	On the compass rose between Twy E2 and E3.
Seattle (Auburn Muni)	116.8/SEA	G	314	7.2	Taxiway A4 runup area.
Walla Walla (Walla Walla Rgnl)	116.4/ALW	G	035	0.5	On Twy A between A2 and A3.
Wenatchee (Pangborn Mem)	114.35/EAT	G	102		On Twy A between Twy A2 and A3.

VOR TEST FACILITIES (VOT)

Remarks

Facility Name (Airport Name)	Freq.	Type VOT Facility
Seattle (Boeing Field/King County Intl)	108.6	G
Seattle (Seattle-Tacoma Intl)	117.5	G
Spokane (Felts Field)	114.0	G
Spokane Intl	109.6	G

WYOMING VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Jackson (Jackson Hole)	115.4/JAC	G	174	0.5	On Twy A, approximately 1,000' S of AER 19.
Rock Springs (Southwest Wyoming Rgnl)	116.0/OCS	G	270	2.3	Intersection Twys B and E.

PARACHUTE JUMPING AREAS

The following tabulation lists all reported parachute jumping areas in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. NOTAM D's may be issued to advise users of specific dates and times if outside the times /altitudes that are published. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Parachute jumping areas within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact Flight Service, tower, or ARTCC.

Qualified parachute jumping areas will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jumping area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Been in operation for at least 1 year.
- (2) Log 1,000 or more jumps each year.

In addition, parachute jumping areas can be nominated by FAA Regions if special circumstances require charting.

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LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC OR GEOGRAPHIC COORDINATES	MAXIMUM ALTITUDE	REMARKS
	IDAHO		
Burley	13 NM; 035° Burley	15,000	Daily SR-SS.
Joslin Fld/Magic Valley Rgnl	0.1 NM; 359° Twin Falls	14,500	2 NM radius. May-Oct, weekends.
(c) McCall Muni Arpt, Smokejumper	8.55 NM; 012.41° Donnelly	9,500	8 NM radius. Apr-Oct, SR-SS daily.
Cc) Star Skydiving Center	17 NM; 289° Boise	16,000	5NM radius. SR-2 hrs after SS daily.
(c) Caldwell Exec	20 NM; 269° Boise	17,500	5 NM radius. $^{1}\!/_{2}$ hour before SR–1 hour after SS.
	MONTANA		
(c) Butler Creek	19 NM; 300° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
Dornblaser Fld	5.2 NM; 124° Missoula	12,500 AGL	0.5 NM radius. Occasional use.
(c) Grant Creek	1.5 NM; 057° Missoula	12,500 AGL	0.5 NM radius. Occasional use.
(c) Helena, Ft Harrison AAF	6 NM; 265° Helena	14,500	2 NM radius. Daily 24 hrs. Helena Rgnl ATCT-A/C (HLN) 118.3.
(c) Kalispell, Carson Fld Arpt	28 NM; 238° Kalispell	14,000 AGL	2 NM radius. 0800-SS daily.
Kalispell, City Arpt	6 NM; 230° Kalispell	14,000 AGL	2 NM radius. 0800-SS daily.
(c) Laurel Muni Arpt	9 NM; 208° Billings	14,500	2 NM radius. Daily SR-SS.
Livingston, MIssion Fld	1 NM; 010° Livingston	14,500	2 NM radius. Daily SR-SS.
(c) Missoula Montana Arpt	1.4 NM; 319° Missoula	1,500 AGL	0.5 NM radius. May-Sep daily SR-SS, Oct-Apr occasional use.
Nine Mile R.S	17 NM; 293° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
(c) Raser Ranch	2 NM; 357° Missoula	3,000 AGL	0.5 NM radius Occasional use.
Roundup Arpt	40 NM; 351° Billings	14,500	Weekends SR-SS.
(c) Six Mile	15 NM; 304° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
(c) Stevensville Arpt	25 NM; 166° Missoula	14,000	1 NM radius. Wed and weekends SR-SS.
(c) Stoney Creek	17 NM; 300° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
Three Forks Arpt	18 NM; 275° Bozeman	14,500	2 NM radius. Daily SR-SS.
University Campus	5 NM; 112° Missoula	12,500 AGL	0.5 NM radius. Occasional use.
West Yellowstone, Yellowstone Arpt	,	1,500 AGL	June-Sep.
(c) Whitefish Arpt, Skydive Whitefish	13 NM; 319° Kalispell	13,000	3 NM radius. June through September, Sunrise to Sunset. Salt Lake City ARTCC 133.4.

PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC OR GEOGRAPHIC COORDINATES	MAXIMUM ALTITUDE	REMARKS		
OREGON					
(c) Albany, Northwest Parachute	10 114 0000 0 11:	10.000	0.004 1: 00.11 6: 00		
Club	18 NM; 032° Corvallis	18,000	2 NM radius. SR-1 hr after SS Wed-Sun. Occasional hours Mon-Tue.		
(c) Creswell, Hobby Fld	15 NM; 125° Eugene	15,000	5 NM radius. SR-SS Daily. Mahlon Sweet Fld Twr-TRACON 119.6.		
(c) Estacada, Beaver Oaks Arpt	25 NM; 076° Newberg	13,000 AGL	1.5 NM radius. 0800-2300 Daily.		
(c) Harrisburg, Daniels Fld Arpt	11 NM; 025° Eugene	13,000 AGL	5 NM radius. 1200–SS Daily, 0800–SS Weekends and Holidays.		
(c) Hermiston Muni Arpt	16 NM; 286° Pendleton	15,000	2 NM radius. SR–SS weekends. Occasional hours weekdays.		
(c) Madras, Madras Muni Arpt	44-40-16 N 121-11-05 W	13,000	3 NM radius. Continuous SR-SS. Seattle Center 126.15.		
(c) Medford, Beagle Sky Ranch Arpt	5 NM; 350° Rogue Valley	14,000	Daily SR-2200.		
(c) Mollala, Skydive Oregon Arpt	19 NM; 110° Newberg	14,500	5 NM radius. 0800-2200, Daily. Portland Intl Twr 118.1		
(c) Portland, Mulino State Arpt	18 NM: 095° Newberg	12,500	2 NM radius. 1000–SS, Daily. Portland Intl Twr 118.1.		
	WASHINGTON				
(c) Coupeville NOLF	5 NM; 110° Penn Cove	12,500	2 NM radius. Occasional use.		
Fort Lewis, Abrams Drop Zone	7.5 NM; 207° McChord	1,000	1 NM radius. Occasional use.		
Fort Lewis, Anzio Drop Zone	9 NM; 167° McChord	10,000	0.3 NM radius. Occasional use.		
Fort Lewis, Dakto Drop Zone	7.5 NM; 182° McChord	1,000	0.3 NM radius. Occasional use.		
Fort Lewis, Darby Drop Zone	8.5 NM; 097° Olympia	10,000	0.5 NM radius. Occasional use.		
Fort Lewis, El Guettar Drop Zone	7.5 NM; 092° Olympia	10,000	0.3 NM radius. Occasional use.		
Fort Lewis, Gray AAF (Joint Base Lewis-McChord) Drop Zone	6 NM; 217° McChord	10,000	1 NM radius. Occasional use.		
Fort Lewis, Marion Drop Zone	11 NM; 197° McChord	10,000	1 NM radius. Occasional use.		
(c) Fort Lewis, Merrill Drop Zone	9 NM; 092° Olympia	10,000	0.5 NM radius. Occasional use.		
Fort Lewis, Mytkina Drop Zone	10 NM; 065° Olympia	1,000	1 NM radius. Occsional use.		
Fort Lewis, Point Salinas Drop Zone	7.5 NM; 208° McChord	10,000	1 NM radius. Occasional use.		
Fort Lewis, Pointe De Hoc Drop Zone	11.5 NM; 199° McChord	10,000	0.25 NM radius. Occasional use.		
(c) Fort Lewis, Rogers Drop Zone	7 NM; 162° McChord	10,000	0.5 NM radius. Occasional use.		
Fort Lewis, Solo Drop Zone	6.5 NM; 252° McChord	10,000	1 NM radius. Occasional use.		
(c) Lake Chelan Airport	At field	10,000	5 NM radius. 0700-2100.		
(c) Larson/Rainer Drop Zone	17 NM; 217° Moses Lake	3,000	Continuous. Personnel and hvy equip. Grant Co Intl Twr 126.4.		
Monroe, First Air Fld	14 NM; 091° Paine	12,500	0.5 NM radius. Daily SR-SS.		
(c) Pullman/Moscow Rgnl Arpt	8 NM; 025° Pullman	13,000	Daily, SR-SS.		
(c) Ritzville, West Plains Skydiving					
Drop Zone	36 NM; 207° Spokane	15,000	2 NM radius. SR-SS weekends, 1700-SS weekdays. Heavy use Apr-Nov. Grant Co Intl Twr 126.4. Seattle ARTCC 126.1.		
(c) Shelton, Sanderson Fld Arpt	19 NM; 309° Olympia	14,000	2 NM radius. Daily 0800-2300.		
(c) Snohomish, Harvey Fld	7 NM; 078° Paine	15,000	2 NM radius. Continuous.		
(c) Snohomish, Harvey Fld	8 NM; 075° Paine	15,000	1 NM radius. Continuous.		
(c) Spokane, Hayford Drop Zone	12 NM; 340° Spokane	10,000	0.5 NM radius. Occasional use.		
(c) Tacoma, McChord Field (Joint	20 NIM 1010 Coopul-	1 500 401	Weekende and accessors wints		
Base Lewis–McChord)	28 NM, 181° Seattle	1,500 AGL	Weekends and occasional nights.		
(c) Tekoa, Willard Fld	31 NM; 110° Spokane	12,500	1 NM radius. Daily.		
(c) Toledo, Ed Carlson Meml Fld/South Lewis Co	30 NM; 150° Olympia	12,500	5 NM radius. Continuous.		

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private—use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

UNITED STATES

FACILITY NAME	CHART & PANEL
Cabaniss Fld NOLF, TX (NGW)	L-20H, 21A
Corpus App/Dep Con 125.4 307.9	
Navy Cabaniss Tower 119.65 299.6 (Mon-Thu 1400-0500Z‡, Fri 1400-0100Z‡)	
Fentress NALF, VA (NFE)	H-10I, 12I, L-35D
Oceana App/Dep Con 123.9 266.8	
Fry, OH (ØOH8)	L-27E
Columbus App/Dep Con 118.425	
Gila Bend AF AUX, AZ (GXF)	H-4J, L-5B
Luke App/Dep Con 125.45 263.125 (South) (Mon-Thu 1300-0530Z, Fri 1300-0130Z, clsd weekends and hol)	
Glasgow Industrial, MT (Ø7MT)	H-1E, 2G, L-13D
Salt Lake Center App/Dep Con 126.85 305.2	
Joe Williams NOLF, MS (NJW)	H-6J, L-18G
Meridian App/Dep Con 276.4	
Bravo Tower 118.475 279.2 355.8 (Mon–Fri 1400–2330Z‡)	
Oak Grove MCOLF, NC (13NC)	L-35B
Cherry Point App/Dep Con 119.35 377.175	
Shell AHP, AL (SXS)	L-221
Cairns App/Dep Con 133.45 239.275 (24 hrs Tue-Sat, 1200-0500Z‡ Sun-Mon) other times ctc	
Jax Center App/Dep Con 134.3 322.55	
Shell Tower 139.125 244.5 (1230–0600Z‡ Mon–Fri, exc hol)	
USAF Academy Bullseye Aux Airfield, CO (CO9Ø)	L-10F
ASOS 125.0	
Webster NOLF, MD (NUI)	H-10I, 12I,
Patuxent App/Dep Con 121.0 250.3	L-34E, 36I
Navy Webster Tower 127.0 358.0 (Mon-Fri, exc hol, other times on request,	
1400–2200Z‡ or SS, whichever occurs first)	
For Clnc Del when NHK Apch is clsd ctc Potomac Apch at 866–640–4124	
Whitehouse NOLF, FL (NEN)	H-8H, L-21D, 24G
Jax Center App Con 127.775 377.075	
Jax Center Dep Con 127.775 379.9	
Whitehouse Tower 125.15 307.325 340.2 (Manned during scheduled operations only)	
William P Gwinn, FL (Ø6FA)	H-8I, L-23C
Palm Beach App/Dep Con 317.4	
Gwinn Tower 120.4 279.25 (Mon–Fri 1300–2100Z‡)	
Gnd Con 121.65 279.25	

CANADA

FACILITY NAME	CHART & PANEL
Abbotsford, BC (CYXX)	H-1B, L-12F
ATIS 119.8 (1500–0700Z‡)	
Victoria Trml App/Dep Con 132.7 (Avbl on ground)	
Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500–0700Z‡) Gnd Con 121.8	
MF 119.4 295.0 (0700–1500Z‡) (Shape irregular to 4500′)	
Amos/Magny, QC (CYEY)	H-11B
Montreal Center App/Dep Con 125.9	
Atikokan Muni, ON (CYIB)	L-14I
MF 122.3 (5 NM to 4500 No ground station)	
Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS)	H-11B, L-31D
Toronto Center App/Dep Con 124.025	
Bar River, ON (CPF2)	L-31C
Toronto Center App/Dep Con 132.65	
Bathurst, NB (CZBF)	L-32J
Moncton Center App/Dep Con 134.25 AWOS 127.925	
Boundary Bay, BC (CZBB)	H-1B, L-1E
ATIS 125.5 (1500-0700Z‡)	
Vancouver App/Dep Con 132.3 363.8	
Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3	
MF 118.1 (0700-1500Z‡ to 2000´. Vancouver Trml 125.2 above 2000´. Shape	
irregular to 2500'.)	
Brampton, ON (CNC3)	L-31D
Toronto Trml App/Dep Con 119.3	
Brandon Muni, MB (CYBR)	H–2H
Winnipeg Center App/Dep Con 132.25	
MF 122.1 (5 NM to 4000')	

ACILITY NAME	CHART & PANEL
Brantford, ON (CYFD) Toronto Trml App/Dep Con 128.27	L-31D
Brockville Rgnl Tackaberry ON (CNL3) Montreal Center App/Dep Con 134.675	L-32G
Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') AUTO 122.975	L-32G
Burlington Executive, ON (CZBA) Toronto Center App/Dep Con 119.3 AUTO 122.55	L-31D
Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500')	H-1C
Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.30	H-10G, 11B, L-31D
Charlottetown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	H–11E, L–32J
Chatham-Kent, ON (CYCK) Cleveland Center App/Dep Con 132.25	H-10G, L-30G
Collingwood, ON (CNY3) Toronto Center App/Dep Con 124.02	H-11B, L-31D
Cornwall Rgnl, ON (CYCC) Boston Center App/Dep Con 135.25 377.1	L-32G
Cranbrook/Canadian Rockies Intl, BC (CYXC) Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100 ')	H-1C
Debert, NS (CCQ3) Halifax Trml App/Dep Con 119.2 AUTO 122.275	H-11E, L-32J
Digby, NS (CYID) Moncton Center App/Dep Con 123.9	L-32J
Toronto Center App/Dep Con 133.4 MF 126.2 (1300–2300Z‡, 3 NM to 1700′)	H–11B, L–31E
Drummondville, QC (CSC3) Montreal Center App/Dep Con 132.35	L-32H
Earlton (Timiskaming Rgnl), ON (CYXR) MF 122.0 (5 NM to 3800 ')	H-11B
Filiot Lake Muni, ON (CYEL) Toronto Center App/Dep Con 135.4	L-31C
Fort Frances Muni, ON (CYAG) Minneapolis Center App/Dep Con 120.9	L-14H
Frederictor Intl, NB (CYFC) ATIS 127.55 (1045–0345Z‡, OT AWOS) Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1045–0345Z‡) Gnd Con 121.7 (1045–0345Z‡) MF 119.0 (0345–1045Z‡, S NM to 3500´)	H-11E, L-32I
Goderich, ON (CYGD)	H-11B, L-31D
Toronto Center App/Dep 135.3 266.3 Greenwood, NS (CYZX) ATIS 128.85 244.3 (1100–0000Z‡) App/Dep Con 120.6 335.9 Tower 119.5 236.6 324.3	H–11E, L–32J
Gnd Con 133.75 289.4 Clnc Del 128.025 283.9 Grimsby Air Park, ON (CNZ8)	L-31E
Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475 Halifax/Shearwater, NS (CYAW)	H–11E, L–32J
ATIS 129.175 308.8 (Ltd hrs) App/Dep Con 119.2 MF Shearwater Advisory 119.0 126.2 340.2 360.2 (Ltd hrs	
Gnd Con 121.7 250.1 Halifax/Stanfield Intl, NS (CYHZ)	H-11E, L-32J
ATIS 121.0 Moncton Center App/Dep Con 135.3	
Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95 Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 119.7 Tower 125.0	H-10H, 11B, L-11B
Gnd Con 121.6 Kingston, ON (CYGK) ATIS 135.55 (1115–0400Z‡)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.05 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300´)	

FACILITY NAME	CHART & PANEL
Kitchener/Waterloo, ON (CYKF)	H-11B, L-31D
ATIS 125.1 (1200-0400Z‡) Toronto Trml App/Dep Con 128.275	
Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Co	n 121.8
MF 126.0 (0400-1200Z‡ 5 NM to 4000′) AWOS 125.	
Lachute, QC (CSE4)	L-32G
Montreal Center App Con 124.65 268.3	
Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ)	H-11C
Montreal Center App/Dep Con 134.5 AUTO 122.975	H-11C
Langley, BC (CYNJ)	L-1E
ATIS 124.5 (1630-0230Z, DT 1530-0330Z)	
Victoria Trml App/Dep Con 132.7 290.8 Tower 119.0 (1630–0230Z,
DT 1530–0330Z) Gnd Con 121.9 MF 119.0 (0230–1630Z, DT 0330–15	3207 3 NM to 1900′)
Leamington, ON (CLM2)	L-30F
Detroit Approach App/Dep Con 134.3	2 00.
Lethbridge, AB (CYQL)	H-1D
ATIS 124.4 (1245–0545Z‡)	0 /F NIM + COOO/)
Edmonton Center App/Dep Con 132.75 265.2 MF 121.	
Lindsay, ON (CNF4) Toronto Center App/Dep 134.25	L–31E, L–32F
Liverpool/South Shore Rgnl, NS (CYAU)	L-32J
Moncton Center App/Dep Con 123.9	
London, ON (CYXU)	H-10G, 11B, L-30G, 31D
ATIS 127.8 (1120–0345Z‡)	
Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120–0345Z‡) Gnd Con 121.9	
MF 119.4 (0345–1120Z‡ 5 NM to 3000′)	
Manitowaning/Manitoulin East Muni, ON (CYEM)	L-31C
Toronto Center App/Dep 135.4 260.9	
Maniwaki, QC (CYMW)	L–32G
Montreal Center App/Dep Con 126.57 Mascouche, QC (CSK3)	L-32G
MF 122.35 (5 NM to 2500'. No gnd station. Excluding the	
N shore of Riviere des Milles-lles and 1 NM around Lac A	
Medicine Hat, AB (CYXH)	H-1D
ATIS 124.875 (1245–0345Z)	
MF 122.2 (1245–0345Z 5 NM to 5400′)	L-31D
Midland/Huronia, ON (CYEE) Toronto Center App/Dep 124.025	F-21D
Miramichi, NB (CYCH)	H–11E, L–32J
Moncton Center App/Dep Con 123.7	,
Moncton/Greater Moncton Intl, NB (CYQM)	H–11E, L–32J
ATIS 128.65	77.0
App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 2 Apron Advisory 122.075	275.8
Mont-Laurier, QC (CSD4)	L-32G
Montreal Center App/Dep Con 126.57	
Montreal Intl (Mirabel), QC (CYMX)	H-11C, 12K, L-32G
ATIS 125.7	
Montreal Center App/ Dep Con 124.65 268.3 MF 119.1 (7 NM shape irregular to 2000') (03–11Z (DT	02 107))
(emerg only 450–476–3141) VFR Advisory 134.15	02-102))
GND 121.8 (11–03Z (DT 10–02Z)) TWR 119.1 (11–03Z	Z (DT 10–02Z))
(emerg only 450–476–3141)	
GND Advisory 121.8 (03–11Z (DT 02–10Z)) (emerg only	y 450–476–3141)
(PTC avbl) Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)	H-11C, 12K, L-32G
ATIS 133.7	11-116, 12K, L-32G
Montreal Trml App Con 118.9 126.9 132.85 268.3	
Tower 119.3 119.9 124.3 (old port) 267.1	
Gnd Con 121.0 (West) 121.9 (East) 275.8	
Cinc Del 125.6 Apron 122.275 (West) 122.075 (East)	
Montreal Trml Dep Con 120.42 (SE-S-SW) 124.65 (W-N	JW-NF) 268 3

FACILITY NAME	oning.	CHART & PANEL
Montreal/St-Hubert, QC (CYHU)		H-11C, L-32G
	15–0500Z‡, Apr–Oct Sat–Sun 1045–0300Z‡,	
Nov-Mar Mon-Fri 1045-0400Z‡,		
Montreal Center App/Dep Con 125		
	North) 121.3 (VFR Arr South and East) (Apr–Oct Sat–Sun 1045–0300Z‡, Nov–Mar Mon–Fri	
1045–0400Z‡, Nov–Mar Sat–Sun		
	1045–0500Z‡, Apr–Oct Sat–Sun 1045–0300Z‡,	
	Nov-Mar Sat-Sun 1045-0100Z‡) MF 118.4	
(Apr-Oct Tues-Sat 0500-1045Z‡,	Apr-Oct Sun-Mon 0300-1045Z‡, Nov-Mar	
Tues-Sat 0400-1045Z‡, Nov-Mai		
5 NM shape irregular to 2000')	VFR Advisory 134.15	
MIL 135.9 322.1 (438 Sqn Ops)		H-11B, L-31D
Muskoka, ON (CYQA) Timmins Radio App/Dep Con 12	2 3	H-11B, L-31D
MF 122.3 (5 NM to 3900')	2.0	
Nanaimo, BC (CYCD)		H–1B, L–1E
ATIS 128.425 (1-877-517-28	47)(1400–0500Z)	,
Victoria Trml App/Dep 120.8 12	1.075 252.3 MF 122.1 291.8 1330-0530Z‡	
(5 NM to 2500')		
	(DT 1230–0430Z)) (emerg only 250–245–4032)	
(PTC avbl)		
North Bay, ON (CYYB) ATIS 124.9 (1130–0330Z‡		L-31E
Toronto Center App/Dep 127.25		
MF 118.3 (1130–0330Z‡ 7 NN		
Oshawa, ON (CYOO)	· · · · · · · · · · · · · · · · · · ·	L-31E
ATIS 125.675 (1130-0330Z‡)		
Toronto Trml App/Dep Con 133.		
Tower 120.1 (1130–0330Z‡)		
MF 120.1 (0330–1130Z‡ 5 NN	1 to 3000')	
Ottawa/Carp, ON (CYRP)		L-31E, 32F
ATIS 121.15 Ottawa Trml App/Dep Con 127.7	7	
Ottawa/Gatineau, QC (CYND)	<u>'</u>	H-11C, L-32G
Ottawa/Trml App/Dep Con 127.7	7 128.175	11–110, 1–324
MF 122.3 (5 NM shape irregular		
VFR Advisory Ottawa Trml 127.		
GND ADV 122.6 1130-0215Z (DT 1030-0115Z) (emerg only 819-643-2961)	
Ottawa/MacDonald-Cartier Intl, ON (CYOW)	L-11C
ATIS 121.15	1100000000	
	118.8 (VFR South) 120.1 (VFR North) 118.8 341.3	
Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175		
Owen Sound/Billy Bishop Rgnl, ON (0	CYOS)	L-31D
Toronto Center App/Dep 132.57		2 012
Pelee Island, ON (CYPT)		L-30F
Cleveland Center App/Dep Con 1	26.35 360.0	
Pembroke, ON (CYTA)		H-11C, L-31E, 32F
Montreal Center App/Dep Con 13		
	1 (Mon–Fri 1300–2130Z‡, OT PPR)	
Penticton, BC (CYYF)	133.5 351.3 MF 118.5 (5 NM to 4100)	H-1B
GND ADV 121.9 (emerg only 25		
Peterborough, ON (CYPQ)	0-432-3001)	H-11B, L-31E, 32F
Toronto Center App/Dep 134.25	MF 123.0 (5 NM to 3600')	11 110, 2 012, 021
Pincher Creek, AB (CZPC)	· · · · · · · · · · · · · · · · · · ·	H-1D
Edmonton Center App/Dep Con 1	132.75 265.2	
Pitt Meadows, BC (CYPK)		L-1E
ATIS 125.0 (1500-0700Z‡)		
Vancouver Center App Con 128.		
Pitt Tower 126.3 (1500–0700Z Vancouver Center Dep Con 132.		
MF 126.3 (0700–1500Z‡) (3NI		
Quebec/Jean Lesage Intl. QC (CYQB)	/	H-11D, L-32H
ATIS 134.6		11 110, 1-0211
	24.0 127.85 135.025 270.9 322.8	
Tower 118.65 236.6		
Gnd Con 121.9 250.0		
Riviere Du Loup, QC (CYRI)		H-11D
Montreal Center App/Dep Con 12	25.1 299.6	
Rouyn Noranda, QC (CYUY)	25.1 299.6 25.9 MF 122.2 (5 NM to 4000′)	H-11B

CILITY NAME	CHADT & DANIEL
CILITY NAME Saint John, NB (CYSJ)	H-11E, L-32J
Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	11-112, 2-525
Sarnia (Chris Hadfield), ON (CYZR) Toronto Center App/Dep Con 134.375	H-10G, 11B, L-30F
Sault Ste Marie, ON (CYAM)	H-2K, L-31B
ATIS 133.05 (1130–0330Z‡)	
Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1130–0330Z‡) Gnd Con 121.7 (1130–0330Z‡)	
MF 118.8 (0330–1130Z‡ 5 NM irregular shape to 3000′)	
herbrooke, QC (CYSC)	H-11D, L-32H
Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800') outh Renfrew Muni, ON (CNP3)	L-31E, 32F
Montreal Center App/Dep 124.275	
Southport, MB (CYPG) ATIS 120.85 (Mon-Fri 1400–2300Z‡ except holidays)	H–2H
Tower 126.2 384.2 (Mon–Fri 1400–2300Z‡ except holidays)	
Gnd Con 121.7 275.8	
pringwater Barrie Airpark, ON (CNA3) Toronto Center App/Dep Con 124.025	L-31D
t. Catherines/Niagara District, ON (CYSN)	H-10H, 11B, L-31E
ATIS 128.525 (1215–0200Z‡)	
Toronto Trml App/Dep Con 133.4 MF 123.25 (1215–0200Z‡ 5 NM to 3300´)	
t. Frederic, QC (CSZ4)	L-32H
Montreal Center App/Dep Con 135.025 270.9	U 20U I 11D
t. Georges, QC (CYSG) Montreal Center App/Dep Con 132.35	H–32H, L–11D
MF 122.15 (5 NM 3900 ' ASL)	
t. Jean, QC (CYJN) Montreal Center App/Dep Con 125.15 268.3	L-32G
Tower 118.2 (Apr–Oct 1230–0230Z‡ Nov–Mar 1300–0200Z‡)	
Gnd Con 121.7	
udbury, ON (CYSB) ATIS 127.4	H-31B, 10G, L-31D
Toronto Center App/Dep Con 135.5	
MF 125.5 (7 NM to 4000') Clnc Del 121.8 (PTC avbl) ummerside. PE (CYSU)	11 115 1 201
Moncton Center App/Dep Con 124.4 384.8	H–11E, L–32J
nunder Bay, ON (CYQT)	H-2J, L-14J
ATIS 128.8 Winnipeg Center App/Dep Con 132.125	
Tower 118.1 (1100–0400Z‡) Gnd Con 121.9 (1100–0400Z‡)	
App/Dep 119.2 MF 118.1 (0400–1100Z‡ 5 NM to 4000′)	
immins/Victor M. Power, ON (CYTS) ATIS 124.95	H-11B
Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000')	
oronto/Buttonville Muni, ON (CYKZ)	L-31E
Toronto Trml App/Dep Con 133.4 MF 124.8 (No gnd station. 5 NM shape irregular 2000 ASL)	
oronto/Billy Bishop Toronto City Airport, ON (CYTZ)	L-31E
ATIS 133.6 (1130–0400Z‡)	
App/Dep Con 133.4 Tower 118.2 119.2 (1130–0400Z‡) Gnd Con 121.7 (1130–0400Z‡)	
oronto/Lester B Pearson Intl, ON (CYYZ)	H-11B, L-31D
ATIS 120.825 133.1 App Con 132.8 124.475 125.4 Dep Con 127.575 128.8	
Tower 118.35 118.7 Gnd Con 121.9 121.65 119.1 Clnc Del 121.3 (1200–0400Z‡) A–CDM Coordinator 122.875 (122.825)	
Apron Tow Coordinator 136.525	
renton, ON (CYTR) ATIS 135.45 257.7	H-11C, L-31E, 32F
And 133.43 237.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8	
Clnc Del 124.35 286.4	
renton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 or 122.35	H-11C, L-31E, 32F
rois–Rivieres, QC (CYRQ)	H-11C, L-32H
Montreal Center App/Dep Con 128.225	,
MF 122.35 (5 NM to 3200′) /al–D'or, QC (CYVO)	H-11B
	U-11B
Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000´)	

FACILITY NAME	CHART & PANEL
Vancouver Intl, BC (CYVR)	H–1B, L–1E
ATIS 124.6	
App Con 128.6 128.17 (Outer) 133.1 134.225 (Inner) 352.7 Dep Con 126.125 (north) 132.3 (south) 363.8	
Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6	
Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4	
Victoria Intl, BC (CYYJ)	H–1B, L–1E
ATIS 118.8 (0800–1400Z‡)	
App Con 125.45 Dep Con 125.95 Tower 119.1 (Outer) 119.7 (Inner) 239.6	
Gnd Con 121.9 361.4 (1400–0800Z‡ OT ctc Kamloops 119.7)	
Clnc Del 126.4 (1400–0800Z‡)	
Victoriaville, QC (CSR3)	L-32H
Montreal Center App Con 132.35 AUTO 122.17 (bil) Waterville/Kings Co Muni, NS (CCW3)	L-32J
Greenwood Trml App/Dep Con 120.6 335.9	L-32J
Greenwood Tower 119.5 324.3	
Wiarton, ON (CYVV)	H-11B, L-31D
Toronto Center App/Dep Con 132.575	
MF 122.2 (5 NM to 3700')	
Windsor, ON (CYQG) ATIS 134.5 (1200–0300Z‡)	H-10G, L-8J
Detroit App/Dep Con 118.95 132.35 134.3 284.0	
Tower 124.7 (1200–0300Z‡) Gnd Con 121.7 (1200–0300Z‡)	
MF 124.7 (0300–1200Z‡ 6 NM irregular shape to below 3000′)	
VFR Advisory Detroit App Con 134.3 AWOS 134.5 (0300–1200Z‡)	
Yarmouth, NS (CYQI)	H-11E, L-32I
Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	
MEXICO	
FACILITY NAME	CHART & PANEL
Chihuahua Intl/General R Fierro Villalobos Intl (MMCU)	1-61
ATIS 127.9	2 01
Chihuahua App Con 121.0 Chihuahua Tower 118.4	
Ciudad Juarez Intl/Abraham Gonzalez Intl (MMCS/CJS)	H–4L, L–6F
Juarez App Con 119.9 Juarez Tower 118.9	П-4L, L-0Г
Del Norte Intl (MMAN)	
ATIS 127 55 (1200 02007+)	H–7B, L–20G
ATIS 127.55 (1300–0300Z‡) Monterrey App 119.75 120.4 Tower 118.6	
ATIS 127.55 (1300–03002‡) Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0	
Monterrey App 119.75 120.4 Tower 118.6	
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1	H–7B, L–20G
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3	H–7B, L–20G
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Inti (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Inti (MMMA)	H–7B, L–20G
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H–7B, L–20G H–7A H–7C, L–21A
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML)	H–7B, L–20G
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H–7B, L–20G H–7A H–7C, L–21A
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–020024) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–02007‡) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY)	H–7B, L–20G H–7A H–7C, L–21A
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–0200Z‡) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intt (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–020072) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–02002†) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Cinc Del 123.75 (1200–0400Z‡) Monterrey Info 122.45	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A H–7B, L–20G
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intt (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–020072) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intt (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–02002‡) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Clnc Del 123.75 (1200–0400Z‡) Monterrey Info 122.45 Nuevo Laredo/Quetzalcoatt (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Reynosa Intl/General Lucio Blanco Intl (MMRX)	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A H–7B, L–20G
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–02007‡) Mexicali Intp Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Cinc Del 123.75 (1200–04007‡) Monterrey Info 122.45 Nuevo Laredo/Quetzalcoati (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Reynosa Intl/General Lucio Blanco Intl (MMRX) Reynosa App Con 127.2 Reynosa Tower 118.8	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A H–7B, L–20G H–7B, L–20G
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–0200Z†) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Clnc Del 123.75 (1200–0400Z‡) Monterrey Info 122.45 Nuevo Laredo/Quetzalcoati (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Reynosa Intl/General Lucio Blanco Intl (MMRX) Reynosa App Con 127.2 Reynosa Tower 118.8 Saltillo Intl/Plan De Guadalupe Intl (MMIO/SLW)	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A H–7B, L–20G
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–0200Z‡) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Clnc Del 123.75 (1200–0400Z‡) Monterrey Info 122.45 Nuevo Laredo/Quetzalcoatl (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Reynosa Intl/General Lucio Blanco Intl (MMRX) Reynosa App Con 127.2 Reynosa Tower 118.8 Saltillo Intl/Plan De Guadalupe Intl (MMIOSLW) Saltillo App Con 127.4 Saltillo Tower 118.4	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A H–7B, L–20G H–7B, L–20G H–7B, L–20H
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–02002t) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Clnc Del 123.75 (1200–0400Zt) Monterrey Info 122.45 Nuevo Laredo/Quetzalcoatl (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Reynosa Intl/General Lucio Blanco Intl (MMRX) Reynosa App Con 127.2 Reynosa Tower 118.8 Saltillo Intl/Plan De Guadalupe Intl (MMIC/SLW) Saltillo App Con 127.4 Saltillo Tower 118.4 Tijuana Intl/General Abelardo L Rodriguez Intl (MMTJ)	H–7B, L–20G H–7A H–7C, L–21A H–4I, L–4J, 5A H–7B, L–20G H–7B, L–20G
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–020007‡) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Clnc Del 123.75 (1200–04007‡) Monterrey Info 122.45 Nuevo Laredo/Quetzalcoatl (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Reynosa Intl/General Lucio Blanco Intl (MMRX) Reynosa App Con 127.2 Reynosa Tower 118.8 Saltillo Intl/Plan De Guadalupe Intl (MMIO/SLW) Saltillo App Con 127.4 Saltillo Tower 118.4 Tijuana Intl/General Abelardo L Rodriguez Intl (MMTJ) ATIS 127.9	H-7B, L-20G H-7A H-7C, L-21A H-4I, L-4J, 5A H-7B, L-20G H-7B, L-20G H-7B, L-20H H-7B
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400–02002t) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Clnc Del 123.75 (1200–0400Zt) Monterrey Info 122.45 Nuevo Laredo/Quetzalcoatl (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Reynosa Intl/General Lucio Blanco Intl (MMRX) Reynosa App Con 127.2 Reynosa Tower 118.8 Saltillo Intl/Plan De Guadalupe Intl (MMIC/SLW) Saltillo App Con 127.4 Saltillo Tower 118.4 Tijuana Intl/General Abelardo L Rodriguez Intl (MMTJ)	H-7B, L-20G H-7A H-7C, L-21A H-4I, L-4J, 5A H-7B, L-20G H-7B, L-20G H-7B, L-20H H-7B
Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3 Matamoros Intl/General Servando Canales Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 (1400-0200Z‡) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 Monterrey Intl/General Mariano Escobedo Intl (MMMY) Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Clnc Del 123.75 (1200-0400Z‡) Monterrey Info 122.45 Nuevo Laredo/Quetzalcoatl (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Reynosa Intl/General Lucio Blanco Intl (MMRX) Reynosa App Con 127.2 Reynosa Tower 118.8 Saltillo Intl/Plan De Guadalupe Intl (MMIO/SLW) Saltillo App Con 127.4 Saltillo Tower 118.4 Tijuana Intl/General Abelardo L Rodriguez Intl (MMTJ) ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Tijuana Clnc Del 122.35	H-7B, L-20G H-7A H-7C, L-21A H-4I, L-4J, 5A H-7B, L-20G H-7B, L-20G H-7B, L-20H H-7B

PREFERRED IFR ROUTES

PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing preferred direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

- Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight
 are normally cleared directly on the airway.
- Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
- Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
- 4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
- 5. Where more than one route is listed the routes have equal priority for use.
- 6. Official location identifiers are used in the route description for VOR/VORTAC navaids.
- 7. Intersection names are spelled out.
- Navaid and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
- Where two navaids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
- 10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
- 11. (90-170 incl) altitude flight level assignment in hundred of feet.
- 12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
- 13. All Preferred IFR Routes are in effect continuously unless otherwise noted.
- 14. Use current SIDs and STARSs for flight planning.
- 15. For high altitude routes, the portion of the routes contained in brackets [] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

SPECIAL LOW ALTITUDE PREFERRED DIRECTION ROUTES

Terminals TRAFFIC FROM NORTH TERMINATING AT MCMINNVII IF AURORA STATF &	Route	Effective Times (UTC)
HILLSBORO, OR (17000 AND BELOW) SOUTHBOUNDTRAFFIC FROM THE EUGENE, OR AREA (PROPS/TURBOPROPS; 17000 AND BELOW)	LOATH V165 UBG	1400–0700
NORTHBOUND	EUG V481 CVO V495 UBG	1400-0700
SOUTHBOUND	EUG V448 OED	1400-0700
TRAFFIC OVERFLYING THE PORTLAND, OR AREA (15000 AND BELOW)		
NORTHBOUND	UBG V165 OLM	1400-0700
SOUTHBOUND	OLM V165 UBG	1400-0700
TRAFFIC OVERFLYING THE SEATTLE, WA AREA (10000 TO 15000)		
EASTBOUND V4	SEA V2	1400-0700
SOUTHBOUND	NUW DIGGN V495 SEA HELNS-STAR	1400-0700
SOUTHBOUND	NUW JAWBN V495 ALDER BTG	1400-0700
SOUTHBOUND	NUW JAWBN V495 ALDER EUG	1400-0700
SOUTHBOUND	PAE SEA V495 ALDER EUG	1400-0700
SOUTHBOUND V165	V495	1400-0700
SOUTHBOUND V23	V165 DIGGN V495	1400-0700
TRAFFIC OVERFLYING THE SEATTLE, WA AREA (9000 AND BELOW)		
EASTBOUND	HQM SANDR V27 SEA V2 ELN	
EASTBOUND	NUW JAWBN V4 SEA V2 ELN	1400-0700
NORTHBOUND	OLM V165 DIGGN	1400-0700

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
SOUTH/SOUTHWEST BND	NUW DIGGN V165 UBG	1400-0700
SOUTH/SOUTHWEST BND	V165	1400-0700
SOUTHBOUND	DIGGN V165 OLM	1400-0700
SOUTHBOUND	PAE V287 OLM	1400-0700
WESTBOUND	YKM V298 SEA	1400-0700
TRAFFIC OVERFLYING THE SEATTLE. WA	11(W V230 0EA	1400-0700
AREA LANDING IN PDX AREA (10000 TO		
15000)		
SOUTHBOUND V165	V495 SEA HELNS-STAR	1400-0700
SOUTHBOUND V23	V165 DIGGN V495 SEA HELNS-STAR	1400-0700
TRAFFIC OVERFLYING THE SEATTLE, WA		
AREA LANDING IN PDX AREA (9000 AND		
BELOW)	NUMBER OF THE PERSON OF THE PERSON	1400 0700
SOUTHBOUND	NUW DIGGN V165 LOATH BTG	1400–0700
	HIGH ALTITUDE	
		Effective
Terminals	Route	Times (UTC)
BOISE(BOI) CHICAGO(ORD)	(FL240 AND ABOVE-JETS)DPR J16 MCW	
CHICAGO(ORD)	JANESVILLE-STAR	
	or	
	DPR J16 MCW ZZIPR FYTTE (RNAV)-STAR	
PORTLAND(PDX)		
BURBANK(BUR)	(FL240 AND ABOVE; ALL RNAV)JOGEN Q7 AVE HIHWY	
	ROKKR (RNAV)-STAR	
CHICAGO(ORD)	(FL240 AND ABOVE; ALL RNAV)PDT J16 MCW ZZIPR	
	FYTTE (RNAV)-STAR	
DETROIT(DTW)	(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH	
	FLOW)PDT J16 HIA BZN BIL J34 BAE PORZL KKISS (RNAV)-STAR	
	or	
	(DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH	
	FLOW)PDT J16 HIA BZN BIL J34 BAE PORZL RKCTY	
	(RNAV)-STAR	
HOUSTON(HOU)	(FL240 AND ABOVE; ALL RNAV)IMB J15 BOI MTU HBU	
	PNH MQP ELLVR NNEAL KIDDZ (RNAV)-STAR	
HOUSTON(IAH)	(FL240 AND ABOVE; ALL RNAV)(IAH WEST FLOW)IMB	
	J15 BOI MTU HBU PNH MQP DRLLR (RNAV)-STAR	
	Or (FLOAD AND ADOVE ALL BNAVOLALLEAST FLOAVIME	
	(FL240 AND ABOVE; ALL RNAV)(IAH EAST FLOW)IMB J15 BOI MTU HBU PNH MQP GUSHR (RNAV)-STAR	
LONG BEACH(LGB)	(FL240 AND ABOVE; TURBOJETS)SMIGE Q9 REBRG	
ESTA BETOTILEAD)	PCIFC (RNAV)-STAR	
LOS ANGELES(LAX)	(FL240 AND ABOVE)JOGEN Q7 JAGWA BURGL IRNMN	
	(RNAV)-STAR	
ONTARIO(ONT)	(FL240 AND ABOVE)PAWLI Q11 PUSHH PASKE TTE	
CANI DIFOC/CANI)	ZIGGY-STAR	
SAN DIEGO(SAN)	PAWLI Q11 PAAGE HUULK COMIX (RNAV)-STAR	
SANTA ANA(SNA)	(FL240 AND ABOVE)SMIGE Q9 REBRG OHSEA (RNAV)-STAR	
VAN NUYS(VNY)	SMIGE Q9 REBRG IVINS (RNAV)-STAR	
SEATTLE(BFI)	SIMILE QUINEBING INING (NINAV)-STAIN	
BURBANK(BUR)	(FL240 AND ABOVE)SUMMA Q9 REBRG ROKKR	
2018/111(2017)	(RNAV)-STAR	
LONG BEACH(LGB)	(FL240 AND ABOVE)SUMMA Q9 REBRG PCIFC	
	(RNAV)-STAR	
LOS ANGELES(LAX)	(FL240 AND ABOVE)SUMMA JINMO Q7 JAGWA BURGL	
	IRNMN (RNAV)-STAR	
OAKLAND(OAK)	(FL240 AND ABOVE)JJAMM ELMAA HISKU Q5 HUPTU	1300-0600
ONTARIO(ONT)	SPAMY WNDSR (RNAV)-STAR	
ONTARIO(ONT)	(FL240 AND ABOVE)SUMMA PAAGE Q11 PUSHH PASKE LANDO PMD ZIGGY-STAR	
PALM SPRINGS(PSP)	(FL240 AND ABOVE)SUMMA PAAGE PUSHH PASKE	
	OYVEY SIZLR (RNAV)—STAR	
SAN DIEGO(SAN)	(FL240 AND ABOVE)SUMMA PAAGE Q11 PASKE HUULK	
	COMIX (RNAV)-STAR	

Effective

PREFERRED IFR ROUTES

Terminals	Route	Times (UTC)
SAN FRANCISCO(SFO)		
SAN JOSE(SJC)	(FL240 AND ABOVE)JJAMM ELMAA FAMUK Q3 FINER CHBLI BRIXX (RNAV)-STAR	1300-0600
SANTA ANA(SNA)	(FL240 AND ABOVE)SUMMA Q9 REBRG OHSEA (RNAV)-STAR	
SANTA MONICA(SMO)	(FL240 AND ABOVE)SUMMA Q9 SUNBE FRA REBRG BONJO (RNAV)-STAR	
VAN NUYS(VNY)	(FL240 AND ABOVE)SUMMA Q9 SUNBE FRA REBRG IVINS (RNAV)-STAR	
SEATTLE(SEA)		
ANCHORAGE(ANC)	(16000 AND ABOVE)(NORTHBOUND)PANGL YZT J502 ANN J195 BKA LAIRE J133 HUMPY JOHor	
	(16,000 AND ABOVE)ARRIE PRYCE BKA LAIRE JOH	
AUSTIN(AUS)	SUMMA-DP SUMMA J54 BKE BOI MTU CIM TXO SLIDE UCOKA DILLO LAIKS (RNAV)-STAR	
BEDFORD(BED)	HANKK Q935 PONCT EEGUL ZELKA (RNAV)-STAR .	
BOSTON(BOS)	HANKK Q935 PONCT JFUND (RNAV)-STAR	
BURBANK(BUR)	(FL240 AND ABOVE)SUMMA Q9 REBRG ROKKR (RNAV)-STAR	
CHICAGO(ORD)	(FL240 AND ABOVE; ALL RNAV)NORMY J90 HLN RECAP DPR J16 FSD ZZIPR FYTTE (RNAV)-STAR	
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR)	(RNAV TURBOJET)BAE OLYEE BRWNZ (RNAV)-STAR	
DETROIT(DTW)	(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)NORMY J70 BAE PORZL RKCTY (RNAV)-STAR or	
	(DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)NORMY J70 BAE PORZL RKCTY (RNAV)-STAR	
HOUSTON(HOU)	(FL240 AND ABOVE; RNAV TURBOJETS)SUMMA J54 BKE BOI J15 JNC ALS PNH MQP ELLVR NNEAL KIDDZ (RNAV)-STAR	
HOUSTON(IAH)	(FL240 AND ABOVE; ALL RNAV)(IAH EAST FLOW)SUMMA J54 BKE BOI J15 JNC ALS PNH MQP GUSHR (RNAV)-STAR	
	or	
	(FL240 AND ABOVE; ALL RNAV)(IAH WEST FLOW)SUMMA J54 BKE BOI J15 JNC ALS PNH MQP DRLLR (RNAV)-STAR	
LONG BEACH(LGB)	(FL240 AND ABOVE)SUMMA Q9 REBRG PCIFC (RNAV)-STAR	
LOS ANGELES(LAX)	(FL240 AND ABOVE)SUMMA JINMO Q7 JAGWA BURGL IRNMN (RNAV)-STAR	
NEW YORK(JFK)	NORMY J90 HLN GEP DLL HASTE DAFLU J70 LVZ LENDY-STAR	
NEWARK(EWR)	NORMY J90 ABR J70 GEP ODI KG78K KG72M EVOTE NELLS KEEHO J584 SLT WILLIAMSPORT-STAR	
OAKLAND(OAK)	(FL240 AND ABOVE; ALL RNAV)HAROB Q5 HUPTU SPAMY WNDSR (RNAV)-STAR	1300-0600
ONTARIO(ONT)	(FL240 AND ABOVE)SUMMA PAAGE Q11 PASKE TTE ZIGGY-STAR	
SAN DIEGO(SAN)	(FL240 AND ABOVE)SUMMA PAAGE Q11 PASKE HUULK COMIX (RNAV)-STAR	
SAN FRANCISCO(SFO)	(FL240 AND ABOVE; ALL RNAV)ERAVE Q1 ETCHY MLBEC BDEGA (RNAV)-STAR	1300-0600
SAN JOSE(SJC)	(FL240 AND ABOVE; ALL RNAV)FEPOT Q3 FINER CHBLI BRIXX (RNAV)-STAR	1300-0600
SANTA ANA(SNA)	(FL240 AND ABOVE)SUMMA Q9 REBRG OHSEA (RNAV)-STAR	
VAN NUYS(VNY) SPOKANE(GEG)	SUMMA Q9 REBRG IVINS (RNAV)-STAR	
CHICAGO(ORD)	(FL240 AND ABOVE; ALL RNAV)MLP J70 LWT MLS J204 DPR J16 MCW ZZIPR FYTTE (RNAV)-STAR	

PREFERRED IFR ROUTES

SPECIAL HIGH ALTITUDE PREFERRED DIRECTION ROUTES

Terminals	Route	Effective Times (UTC)
(TURBOJET)		
EASTBOUND	FAM TERGE RINTE KLYNE Q29 WWSHR DORET J584 SLT WILLIAMSPORT-STAR	1100-0300
EASTBOUND	FAM TERGE RINTE KLYNE Q29 WWSHR JHW J70 LVZ LENDY-STAR	1100-0300
EASTBOUND	FAM TERGE RINTE KLYNE Q29 WWSHR JHW WILKES-BARRE-STAR	1100-0300
EASTBOUND	FAM TERGE RINTE KLYNE Q29 WWSHR TEESY J146 ETG MILTON-STAR	1100-0300
EASTBOUND	GEP DLL GERBS J146 ETG MILTON-STAR	1100-0300
EASTBOUND	GEP DLL HASTE DAFLU J70 JHW WILKES-BARRE-STAR	1100-0300
EASTBOUND	GEP DLL HASTE DAFLU J70 LVZ LENDY-STAR	1100-0300
EASTBOUND	GEP ODI KG78K KG72M EVOTE NELLS KEEHO J584 SLT WILLIAMSPORT-STAR	1100-0300
EASTBOUND	OVR DSM EVOTE NELLS KEEHO J584 SLT WILLIAMSPORT-STAR	1100-0300
EASTBOUND	SPI KOLTS WWODD RINTE KLYNE Q20 WWSHR TEESY J146 ETG MILTON-STAR	1100-0300
EASTBOUND	SPI KOLTS WWODD RINTE KLYNE Q29 WWSHR DORET J584 SLT WILLIAMSPORT-STAR	1100-0300
EASTBOUND	SPI KOLTS WWODD RINTE KLYNE Q29 WWSHR JHW J70 LVZ LENDY-STAR	1100-0300
EASTBOUND	SPI KOLTS WWODD RINTE KLYNE Q29 WWSHR JHW WILKES-BARRE-STAR	1100-0300
EASTBOUND	SUX DBQ HASTE DAFLU J70 JHW WILKES-BARRE-STAR	1100-0300
EASTBOUND(TURBOJETS)	SUX DBQ KG75M DAFLU J70 LVZ LENDY-STAR	1100-0300
SW BND	MLF STEWW CHOWW (RNAV)-STAR	1300Z-0600 Z
TRAFFIC ARR SEA FROM NW OVERFLYING VANCOUVER ACC FILE YYJ OR TOU TRANSITION (NON-RNAV EQUIPPED)		L
NORTHWEST	TOU JAWBN-STAR	
NORTHWEST	YYJ JAWBN-STAR	
TRAFFIC ARR SEA FROM NW OVERFLYING VANCOUVER ACC FILE YYJ OR TOU TRANSITION (RNAV EQUIPPED)		
NORTHWEST	TOU MARNR (RNAV)-STAR	
NORTHWEST	YYJ MARNR (RNAV)-STAR	
TRAFFIC ARRIVING SALT LAKE CITY TERMINAL AREA		
EAST OVER OCS	OCS BRIGHAM CITY-STAR	
NORTH OVER DBS	DBS BRIGHAM CITY-STAR	
NORTH OVER JAC	PIH BEARR-STAR	
NORTHEAST OVER JAC	JAC BRIGHAM CITY-STAR	
NORTHWEST OVER BYI	BYI BEARR-STAR	

HIGH ALTITUDE—PREFERRED DIRECTION ROUTES

Airway	Segment Fixes	Direction Effective	(UTC)
Q1	ELMAA, WA to POINT REYES, CA	S BND	1300-0600
Q3	FEPOT, WA to POINT REYES, CA	S BND	1300-0600
Q5	HAROB, WA to STIKM, CA	S BND	1300-0600
Q7	JINMO, WA to AVENAL, CA	S BND	1300-0600
Q9	SUMMA, WA to REBRG, CA	S BND	1300-0600
Q11	PAAGE, WA to LOS ANGELES, CA	S BND	1300-0600

MINIMUM OPERATIONAL NETWORK (MON) AIRPORT LISTING

STAT	E CITY	AIRPORT NAME	LOCATION IDENTIFIER
ID	LEWISTON	LEWISTON/NEZ PERCE COUNTY	LWS
ID	TWIN FALLS	JOSLIN FIELD/MAGIC VALLEY RGNL	TWF
MT	BOZEMAN	BOZEMAN YELLOWSTONE INTL	BZN
MT	CUT BANK	CUT BANK INTL	CTB
MT	DILLON	DILLON	DLN
MT	GLASGOW	WOKAL FIELD/GLASGOW - VALLEY COUNTY	GGW
MT	HAVRE	HAVRE CITY-COUNTY	HVR
MT	HELENA	HELENA RGNL	HLN
MT	LEWISTOWN	LEWISTOWN MUNI	LWT
MT	MILES CITY	FRANK WILEY FIELD	MLS
OR	AURORA	AURORA STATE	UAO
OR	BAKER CITY	BAKER CITY MUNI	BKE
OR	BURNS	BURNS MUNI	BNO
OR	MEDFORD	ROGUE VALLEY INTL - MEDFORD	MFR
OR	PORTLAND	PORTLAND-HILLSBORO	HIO
OR	REDMOND	ROBERTS FIELD	RDM
OR	SALEM	MCNARY FLD	SLE
WA	EPHRATA	EPHRATA MUNI	EPH
WA	RICHLAND	RICHLAND	RLD
WA	SPOKANE	SPOKANE INTL	GEG
WA	TACOMA	TACOMA NARROWS	TIW
WY	CHEYENNE	CHEYENNE RGNL/JERRY OLSON FIELD	CYS
WY	DOUGLAS	CONVERSE COUNTY	DGW
WY	EVANSTON	EVANSTON-UINTA COUNTY BURNS FIELD	EVW
WY	JACKSON	JACKSON HOLE	JAC
WY	RIVERTON	CENTRAL WYOMING RGNL	RIW
WY	SHERIDAN	SHERIDAN COUNTY	SHR

AIRPORT DIAGRAMS

In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the Chart Supplement. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the Chart Supplement section may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

- 1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., 🖏 💽 🤡
- 2. Approach lighting systems that do not bear a system identification are indicated with a negative "🐧" beside The name.

A star (★) indicates non-standard PCL, consult Chart Supplement, e.g., ①★

To activate lights, use frequency indicated in the communication section of the chart with a ● or the appropriate lighting system identification e.g., UNICOM 122.8 ●, ♠, ◆

KEY MIKE

7 times within 5 seconds

5 times within 5 seconds 3 times within 5 seconds

FUNCTION

Highest intensity available

Medium or lower intensity (Lower REIL or REIL-off)
Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

Date of Latest Revision

09365

The Date of Latest Revision identifies the Julian date the chart was added or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest revision of any kind has been made to the chart.

FAA Procedure	Orig 31DEC09 -	Procedure Amendment
Amendment Number	- Amdt 2B 12MAR09 -	Effective Date

The FAA Procedure Amendment Number represents the most current amendment of a given procedure. The Procedure Amendment Effective Date represents the AIRAC cycle date on which the procedure amendment was incorporated into the chart. Updates to the amendment number & effective date represent procedural/criteria revisions to the charted procedure, e.g., course, fix, altitude, minima, etc.

NOTE: Inclusion of the "Procedure Amendment Effective Date" will be phased in as procedures are amended. As this occurs, the Julian date will be relocated to the upper right corner of the chart.

MISCELLANEOUS

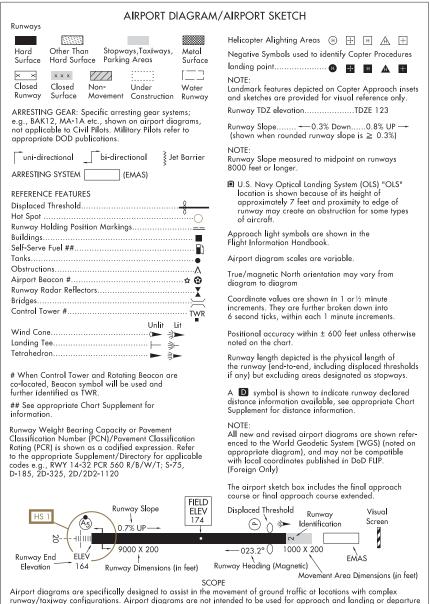
★ Indicates a non-continuously operating facility, see Chart Supplement.
For Civil (FAA) instrument procedures, "RADAR REQUIRED" in the planview of the chart indicates that ATC radar must be available to assist the pilot when transitioning from the en route environment. "Radar required" in the pilot briefing portion of the chart indicates that ATC radar is required on portions of the procedure outside the final approach segment, including the missed approach. Some military procedures also have equipment requirements such as "Radar Required", but do not conform to the same charting application standards used by the FAA.
Distances in nautical miles (except visibility in statute miles and Runway Visual Range in hundreds of feet). Runway Dimensions in feet. Elevations in feet. Mean Sea Level (MSL). Ceilings in feet above airport elevation. Radials/bearings/headings/courses are magnetic. Horizontal Datum: Unless otherwise noted on the chart, all coordinates are referenced to North American Datum 1983 (NAD 83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

Terrain is scaled within the neat lines (planview boundaries) and does not accurately underlie not-to-scale distance depictions or symbols.

24025

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)



LEGEND

operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

CITY/AIRPORT

AIRPORT DIAGRAMS

HOT SPOTS

An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

DESCRIPTION

HOT SPOT

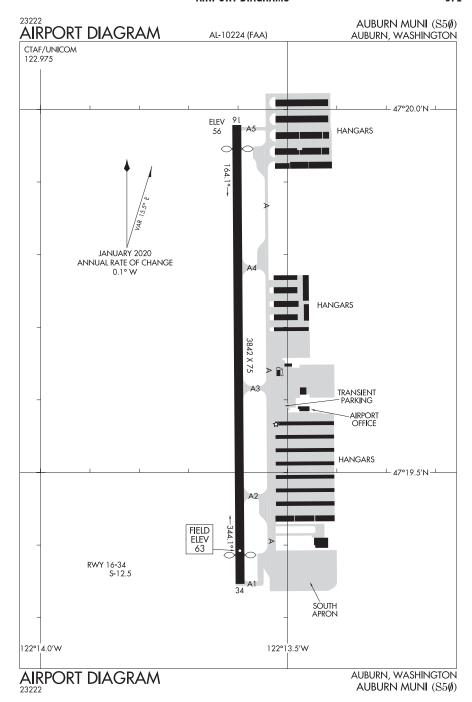
CITY/AIRPORT	HOT SPOT	DESCRIPTION
	IDAHO	
BOISE BOISE AIR TRML/GOWEN FLD (BOI)	HS 1	Pilots departing Rwy 10L often miss the left turn on Twy W and continue taxi on Twy J. Do not mistake Rwy 10L apch sign for Rwy 10L entrance.
HAILEY		
FRIEDMAN MEML (SUN)	HS 1	Possible confusion btn ramp and Twy B due to large paved areas. ATC clnc is needed to enter movement area.
	HS 2	Possible confusion btn ramp and Twy B due to large paved areas. ATC clnc is needed to enter movement area.
	HS 3	Possible confusion btn ramp and Twy B due to large paved areas. ATC clnc is needed to enter movement area.
IDAHO FALLS		
IDAHO FALLS RGNL (IDA) TWIN FALLS	HS 1	Pilots should use caution and look carefully for rwy hold line when using Twy C. Rwy 17–35 does not have rwy edge markings and can be mistaken for a twy.
JOSLIN FLD/MAGIC VALLEY RGNL (TWF)	HS 1	Confusing ramp and twy configuration. Pilots taxiing from FBO ramp sometimes enter Rwy 12–30 wo apvl.
	HS 2	Twy A at Twy A3, confusing geometry and painted lines. ATCT clnc required to cros the painted movement – non–movement bdry marking. Pilots sometimes enter Rwy 08–26 wo apvl.
	MONTAN	A
BILLINGS		
BILLINGS LOGAN INTL (BIL)	HS 1	Complex intersection of Twy A, Twy C, ramp, and Rwy 10L–28R. Large non–movement area south of Twy A.
BOZEMAN		
BOZEMAN YELLOWSTONE INTL (BZN)	HS 1	Pilots taxiing via Twy A to Rwy 30 for departure sometimes fail to hold short of Rwy 03–21.
BUTTE BERT MOONEY (BTM)	HS 1	Rstd visibility between Rwy 33 and Rwy 30. Acft
BERT MOORET (BTM)		departing/ldg may not see tfc on intersecting rwy.
	OREGON	
AURORA		
AURORA STATE (UAO)	HS 1	Rwy hold line close to Twy A. No sign identifying Twy A when exiting the ramp.
NODTH DEND	HS 2	Rwy hold line close to Twy A. No sign identifying Twy A when exiting the ramp.
NORTH BEND	HS 1	Total Assessment Heaventh and of December 12, 21, Dilete have
SOUTHWEST OREGON RGNL (OTH)	H2 I	Twy A crosses the north end of Rwy 13–31. Pilots have mistaken the rwy as part of the twy and taxied onto Rwy 13–31 without clearance.
PENDLETON	110.1	The held line for Dun 20 outside some service (1)
EASTERN OREGON RGNL AT PENDLETON (PDT)	HS 1	The hold line for Rwy 29 extends across a portion of the ramp and is approximately 360' long. The signs are difficult to see from some spots on the ramp.

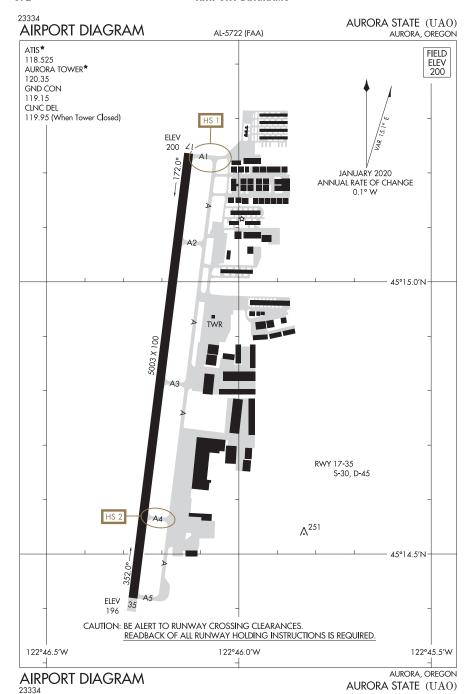
AIRPORT DIAGRAMS

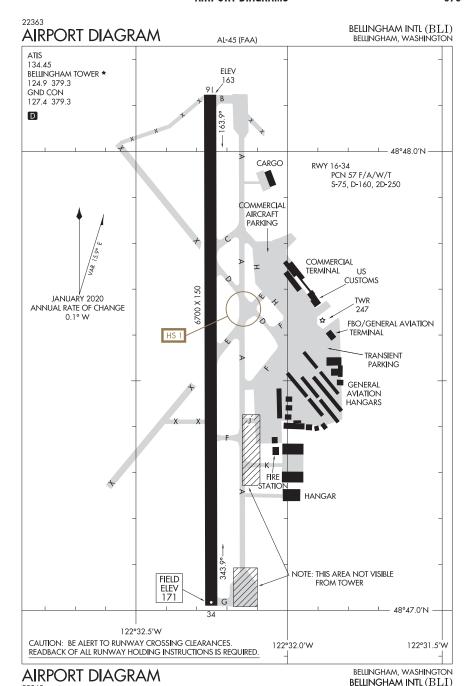
CITY/AIRPORT	HOT SPOT	DESCRIPTION
PORTLAND PORTLAND INTL (PDX)	HS 1	Limited wing-tip clearance at twy convergence point. Pilots taxiing eastbound on Twy B should hold at the twy holding position marking when directed by ATC.
	HS 2	Holding position marking when the deed by ATC. Hold line for Rwy 03–21 is on Twy K. Pilots should be prepared to hold short of Rwy 21 on Twy K unless an authorization to cross has been issued by ATC.
	HS 3	Pilots taxiing outbd from the GA ramp via Twy A3 sometimes miss the turn onto Twy A and enter Rwy 10L–28R wo authorization.
PORTLAND PORTLAND-HILLSBORO (HIO)	HS 1	Acft exiting Rwy 13R–31L at Twy A6 have only 90' of clnc between Twy A cntrln and holding posn markings.
	HS 2	Pilots taxiing from the Rwy 31L run-up area via Twy A8 to Rwy 31L for dep sometimes fail to hold short of Rwy 13R-31L.
REDMOND		
ROBERTS FLD (RDM)	HS 1	Pilots eastbound on Twy B sometimes miss the turn onto Twy A and cross the Rwy 05–23 hold line.
	HS 2	Pilots eastbound on Twy C sometimes miss the turn onto Twy A and cross the Rwy 05–23 hold line.
	WASHING	TON
BELLINGHAM		
BELLINGHAM INTL (BLI) FVFRFTT	HS 1	Confusing twy int for pilots exiting/taxiing Rwy 16–34 via Twy D.
SEATTLE PAINE FLD INTL (PAE)	HS 1	Twy A between Twy A9 and Twy A10 not visible from ATCT.
	HS 2	Enter Rwy 16 full len via Twy A1 unless Twy AA specified by ATC.
FORT LEWIS/TACOMA		
GRAY AAF (JOINT BASE LEWIS-MCCHORD) (GRF)	HS 1	Congested int of Twy E, Twy F and Twy G.
MOSES LAKE GRANT CO INTL (MWH)	HS 1	Unusual hold line location on Twy C, 1568' short of Rwy 18 Thld.
	HS 2	Rwy 09–27 clsd except mil ops. Rwy 09–27 has no rwy markings and NSTD rwy lgts.
OLYMPIA		5 , 5
OLYMPIA RGNL (OLM) PASCO	HS 1	Rwy 8–26 intersects Rwy 17–35.
TRI-CITIES (PSC)	HS 1	Pilots Idg Rwy 30 should listen carefully to ATCT
		instructions and be prepared to exit onto Rwy 03R–21L or Rwy 03L–21R. Pilots often exit at the wrong rwy as directions signs are not avbl.
	HS 2	Pilots sometimes cross Rwy 21L without authorization. When twr is opr, ATC clearance is required to enter or cross rwy.
SEATTLE		
BOEING FLD/KING CO INTL (BFI)	HS 1	Twy Z restricted access area.
	HS 2 HS 3	Rwy 14R–32L and Twy A9. Wrong rwy departure risk.
SEATTLE	по о	Extv copter ops in the vcnty of Twy B5.
SEATTLE-TACOMA INTL (SEA)	HS 1	Acft taxiing to Rwy 34C at Twy Q for departure sometimes enter Rwy 34R wo authorization after reading back hold short instructions. Rwy 34R hold position is only 275' from the ramp and movement area boundary.
	HS 2	Acft crossing/exiting Rwy 16C–34C at Twy J sometimes cros Rwy 16L–34R hold line on Twy H wo authorization. Hold line immediately after joining Twy H.
YAKIMA		
YAKIMA AIR TRML/MCALLISTER FLD (YKM)	HS 1	Twy C, Twy B, and Rwy 22 complex intersection. Rwy hold lines are at an unusual distance from rwy edge, rwy markings not easily visible from hold line.

AIRPORT DIAGRAMS

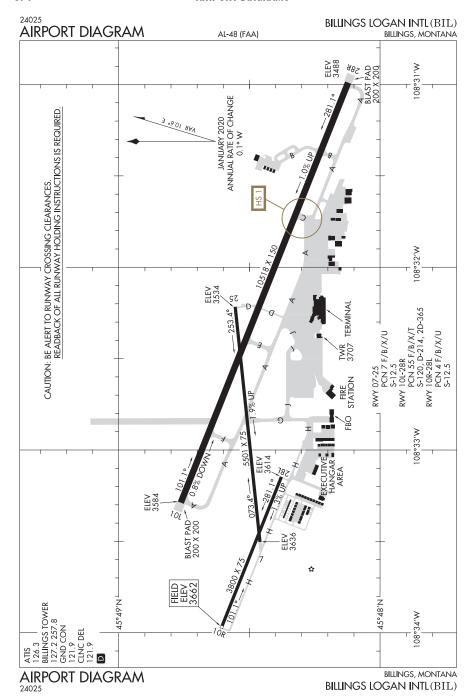
CITY/AIRPORT	HOT SPOT	DESCRIPTION		
WYOMING				
CASPER				
CASPER/NATRONA CO INTL (CPR)	HS 1	Pilots sometimes taxi past Twy A onto Rwy 03–21 without authorization. Twy A on edge of ramp with no signage, and Twy A5 has direct access to Rwy from ramp.		
CHEYENNE				
CHEYENNE RGNL/JERRY OLSON FLD (CYS)	HS 1	Confusing twy configuration. Twy A transitions to Twy B and back to Twy A when taxiing to and from Rwy 13–31.		
JACKSON				
JACKSON HOLE (JAC)	HS 1	Acft sometimes miss Twy A1 and enter the blast pad.		

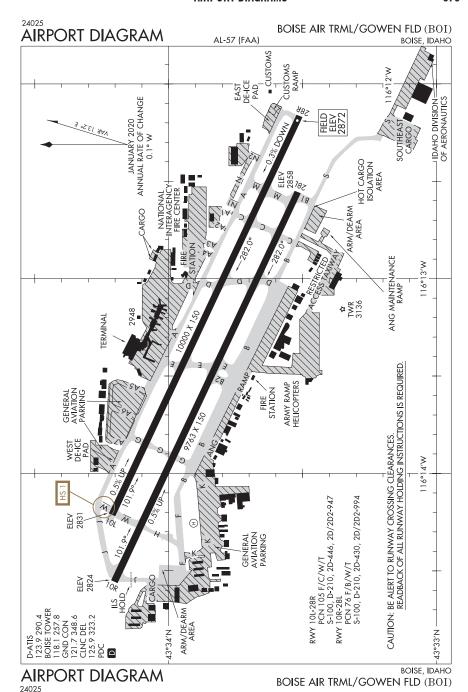




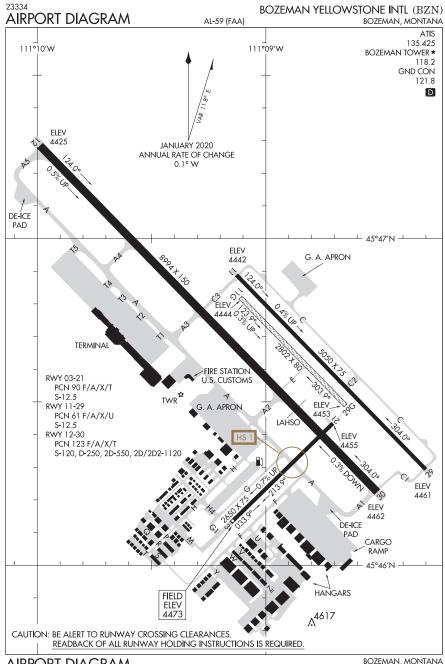


NW, 25 JAN 2024 to 21 MAR 2024



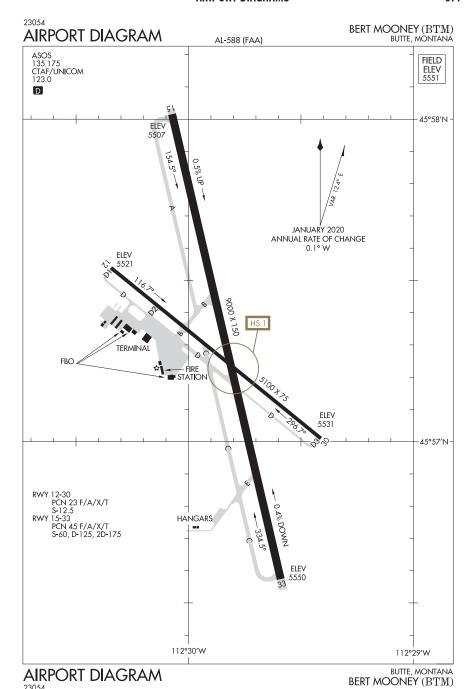


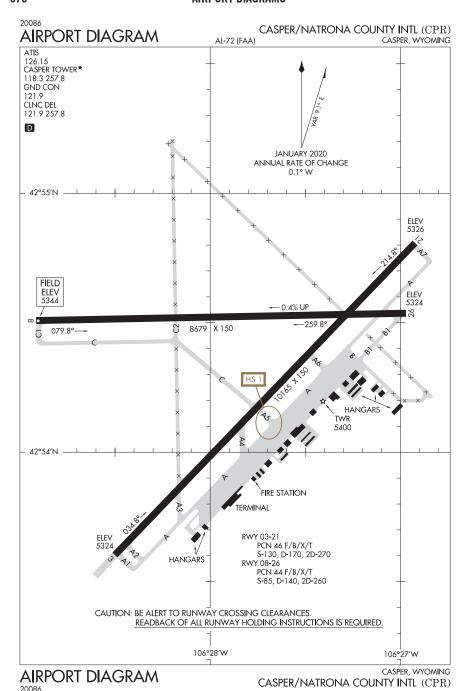
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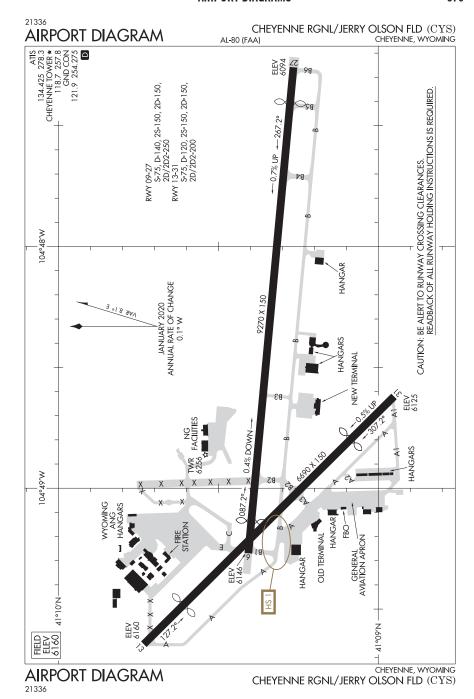
AIRPORT DIAGRAM

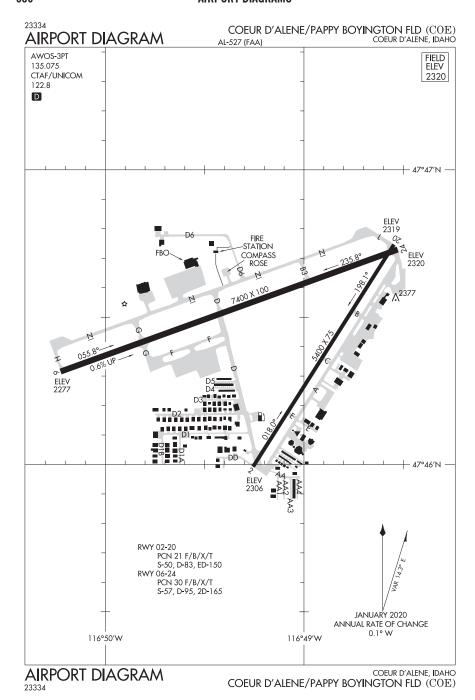
BOZEMAN YELLOWSTONE INTL (BZN)

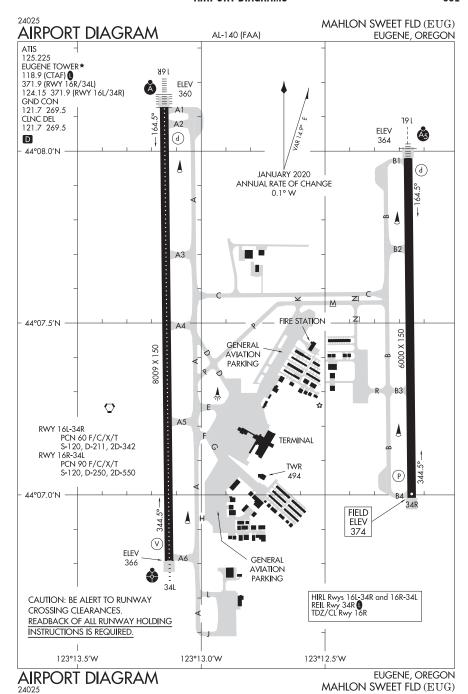




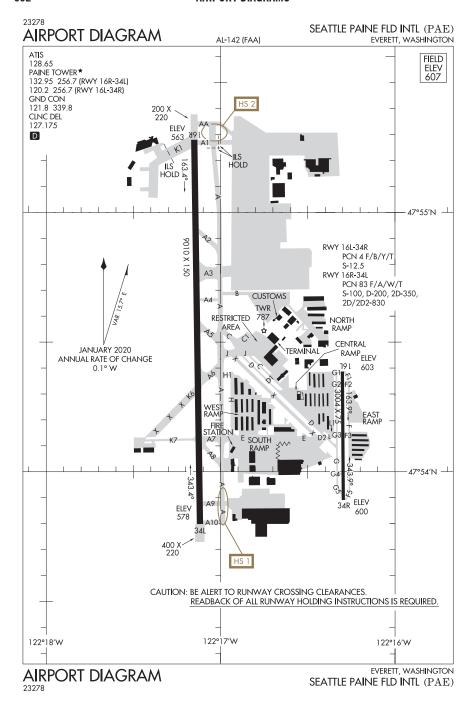
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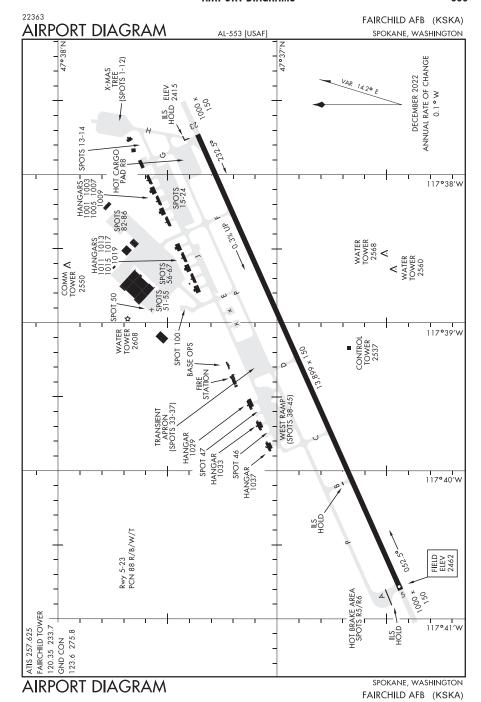


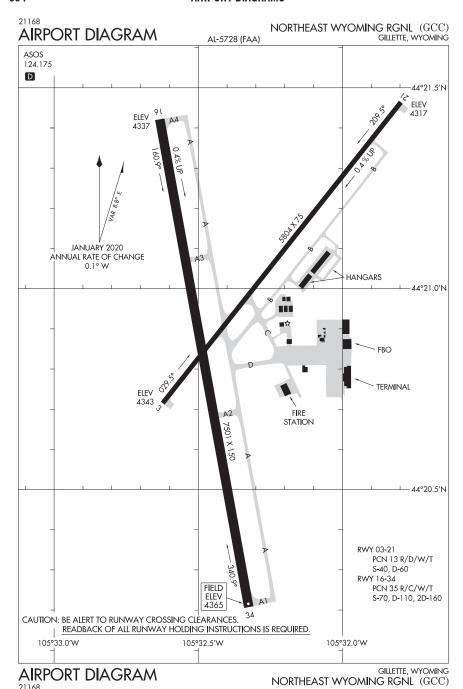




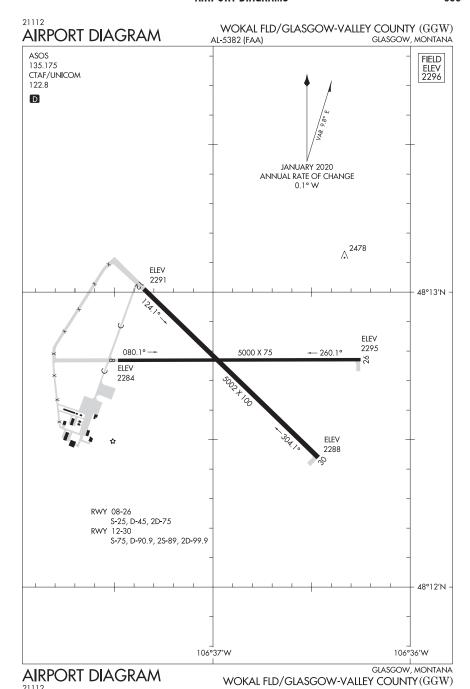
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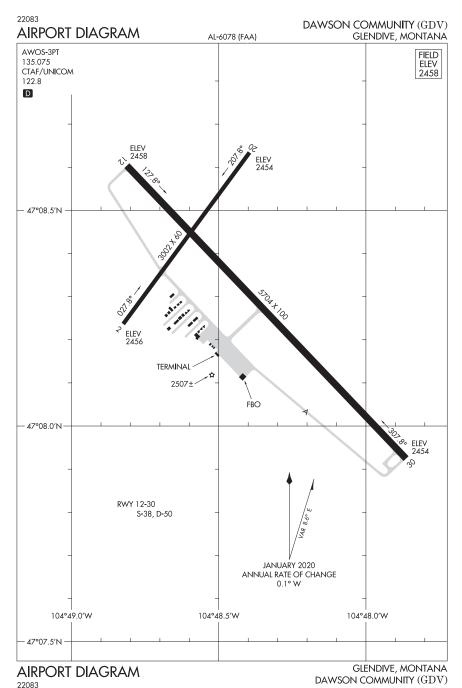




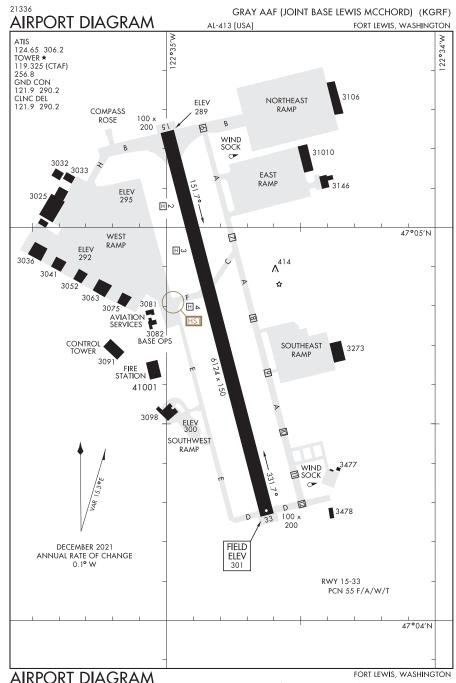
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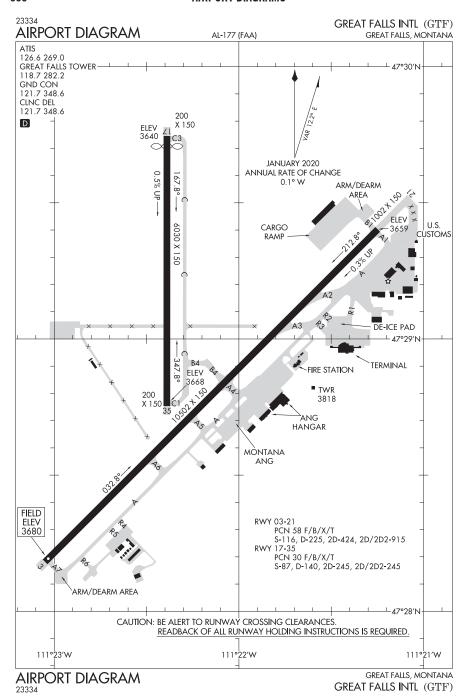
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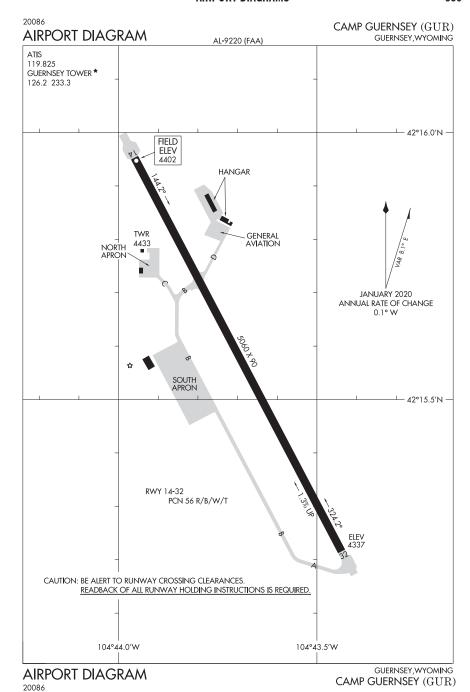


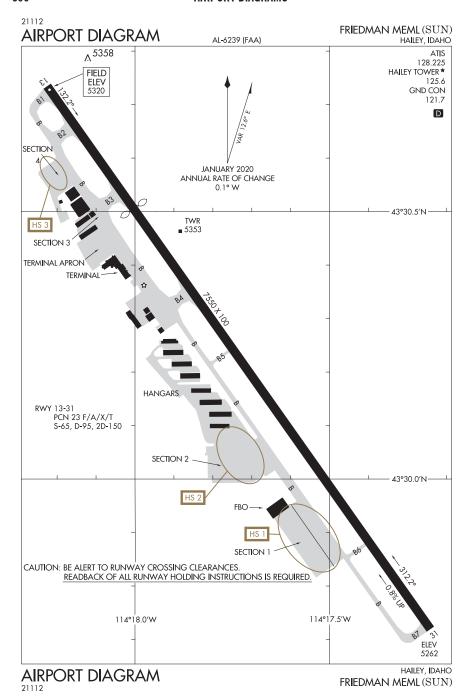
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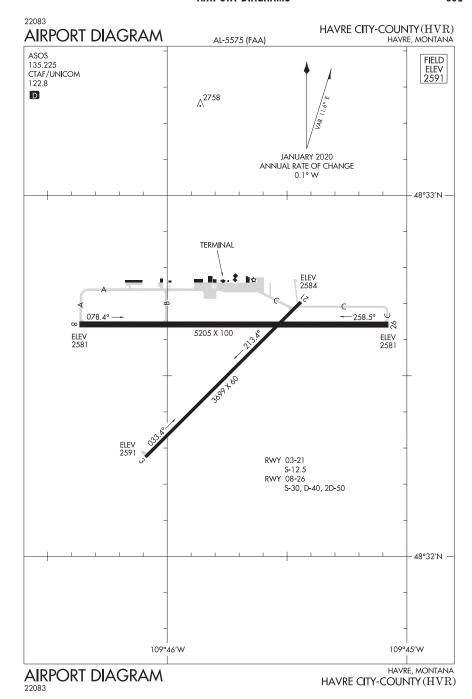


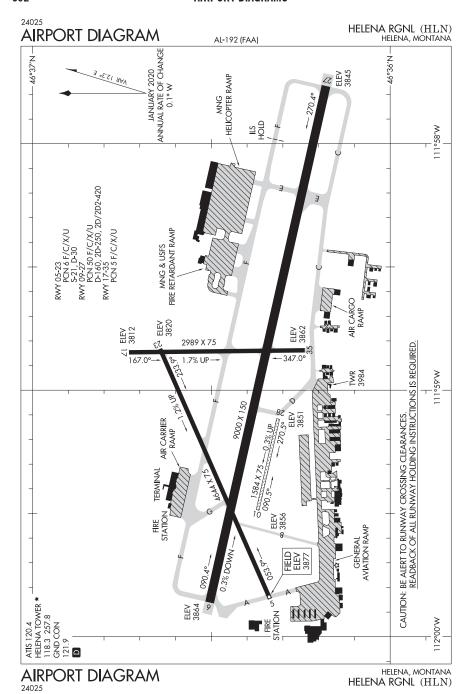
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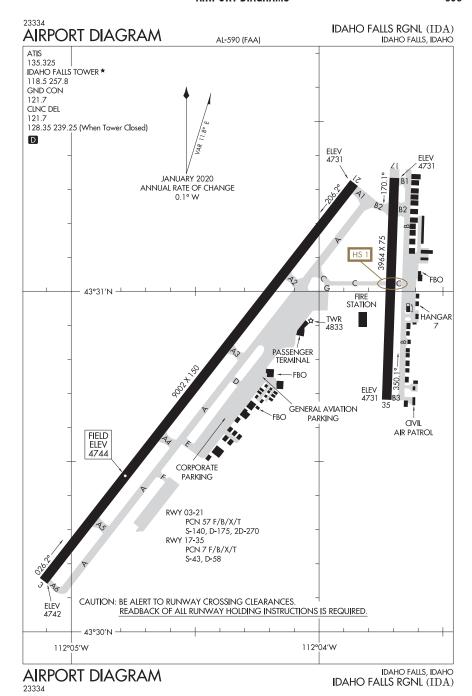


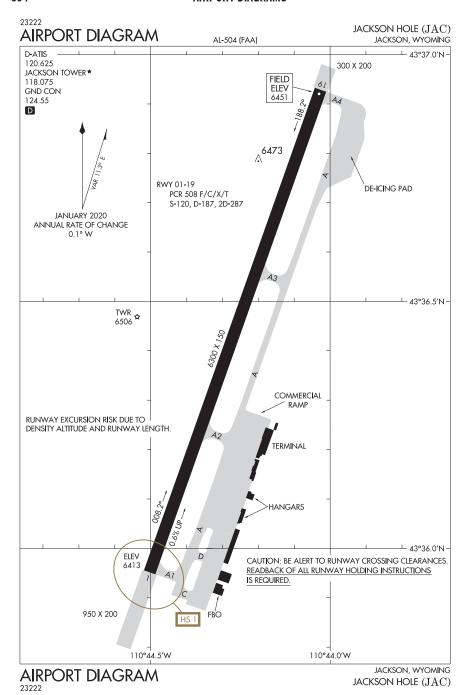


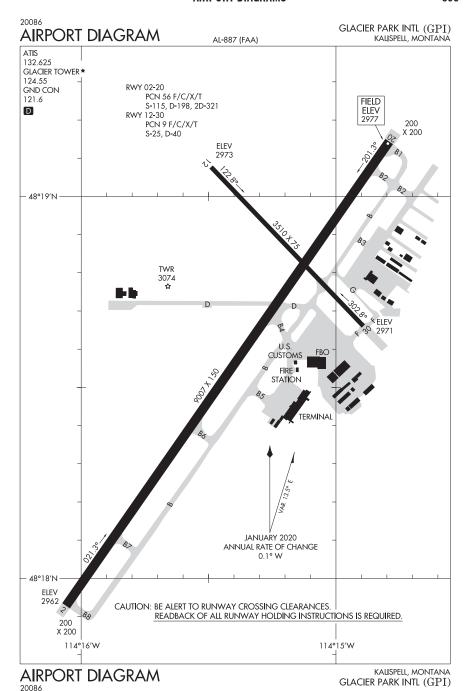


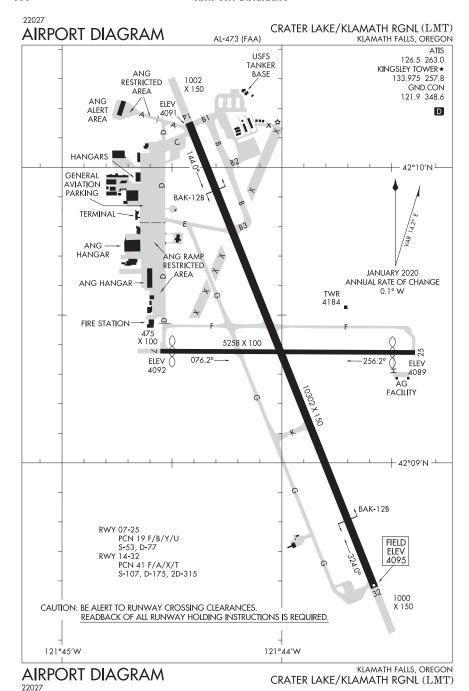




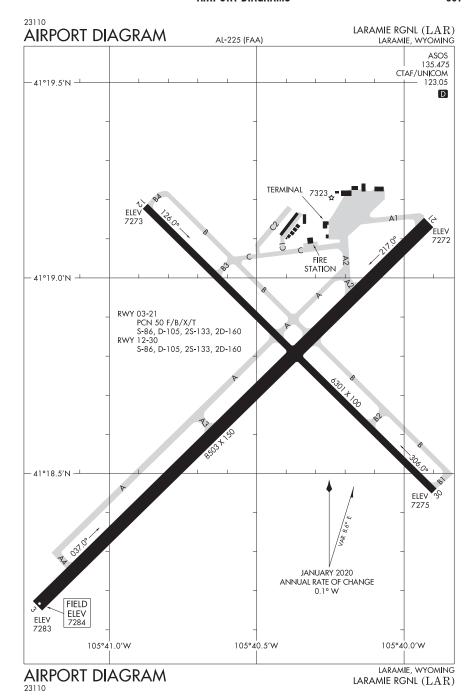


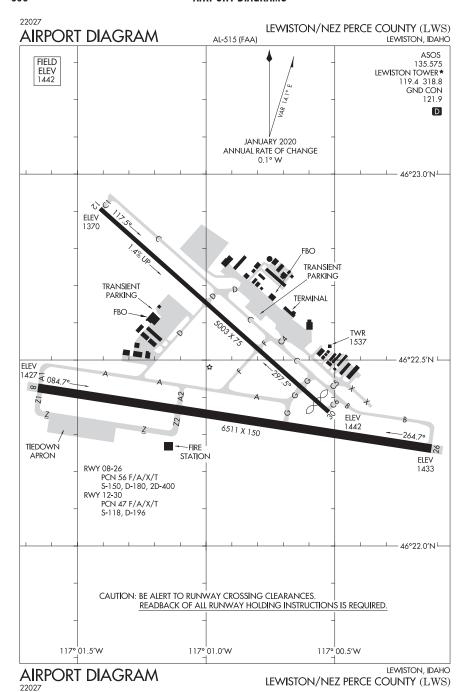


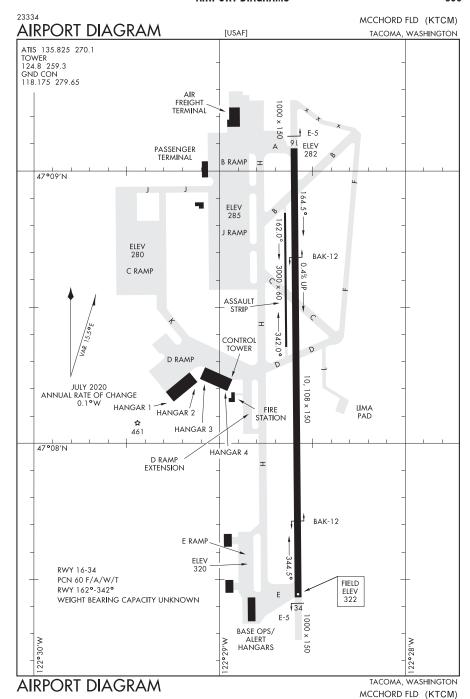


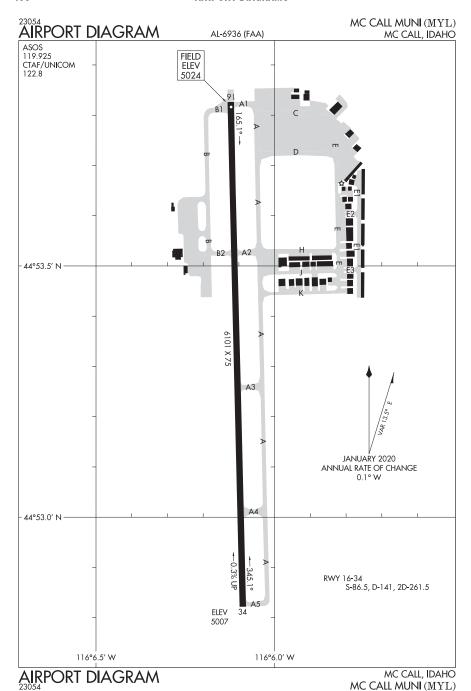


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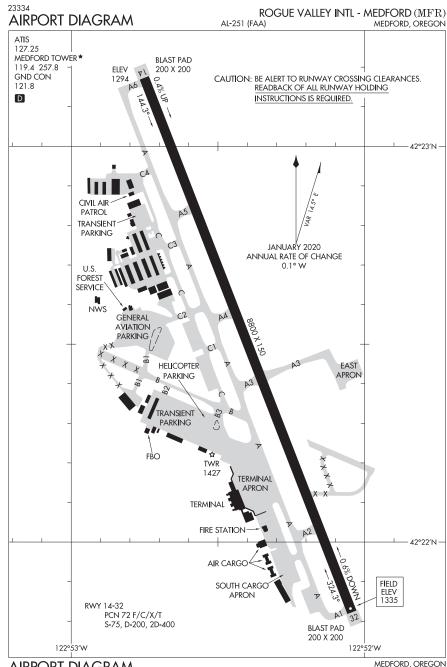






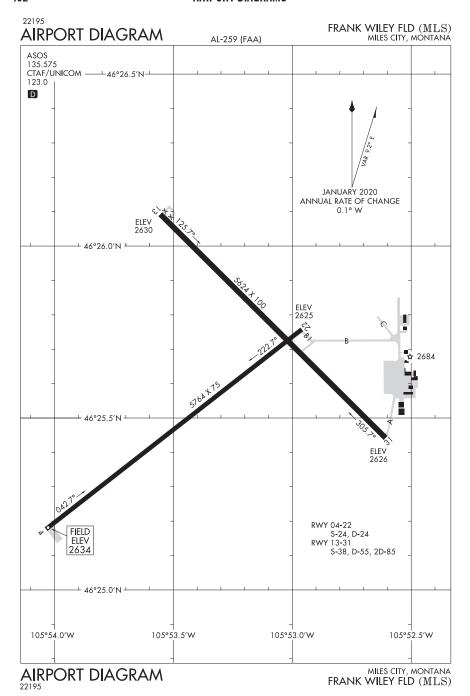


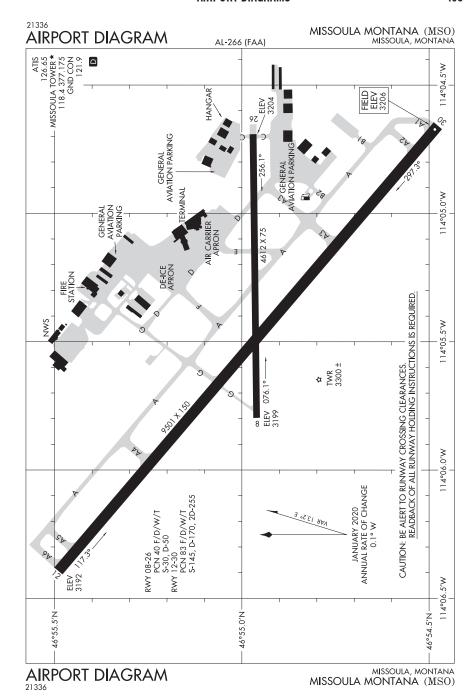
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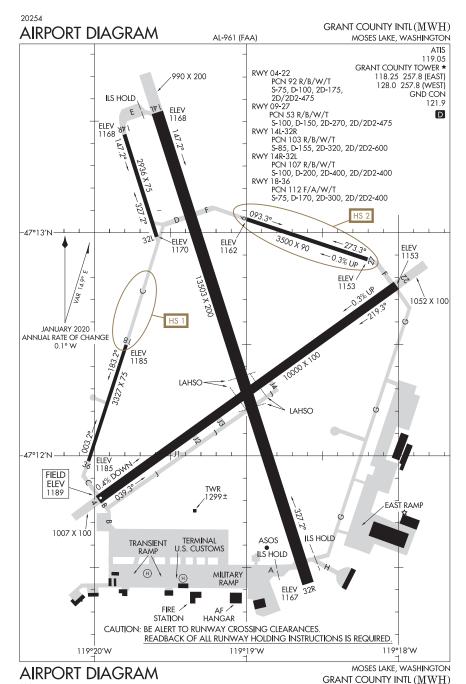


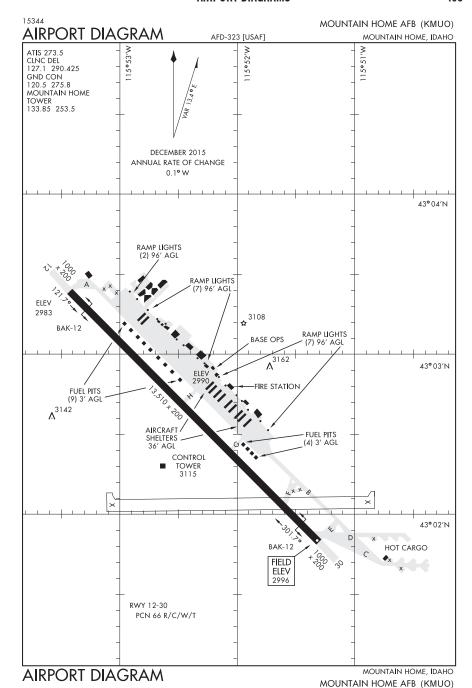
AIRPORT DIAGRAM

ROGUE VALLEY INTL - MEDFORD (MFR)

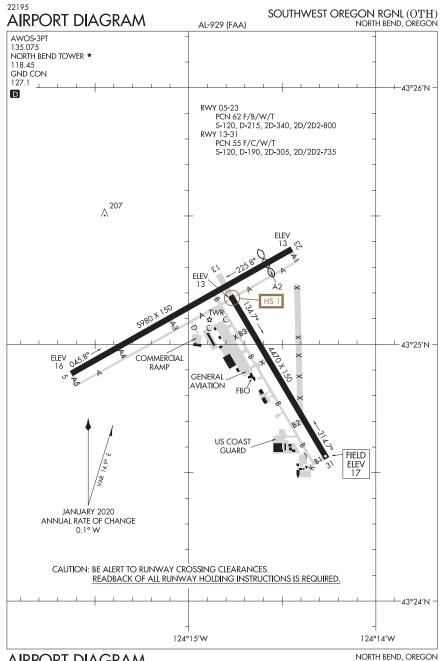






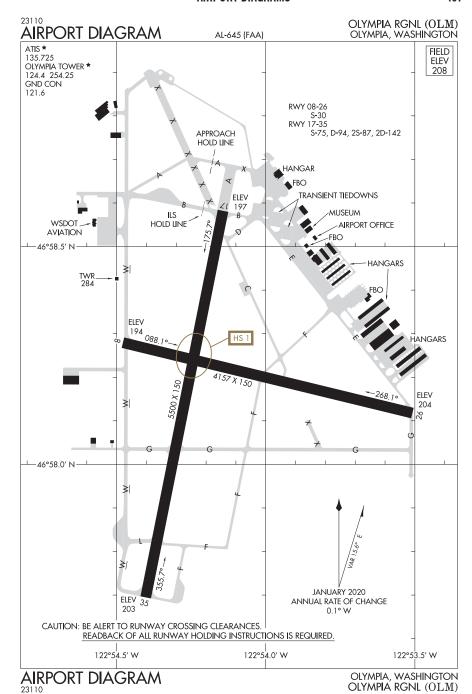


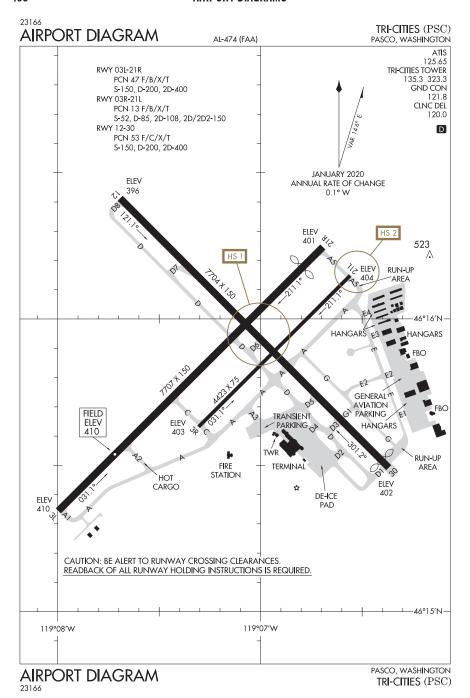
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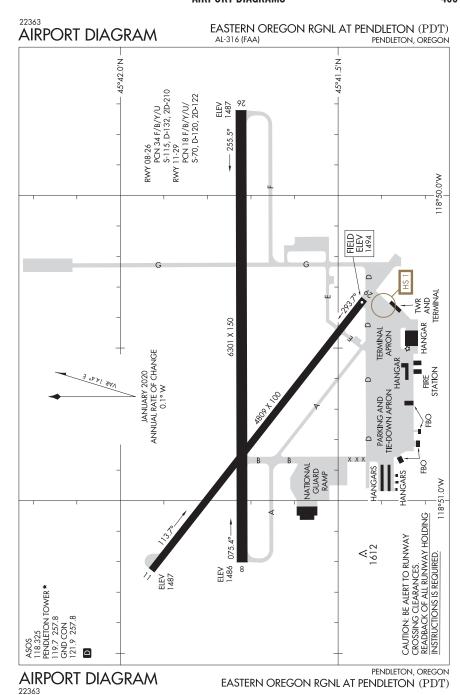


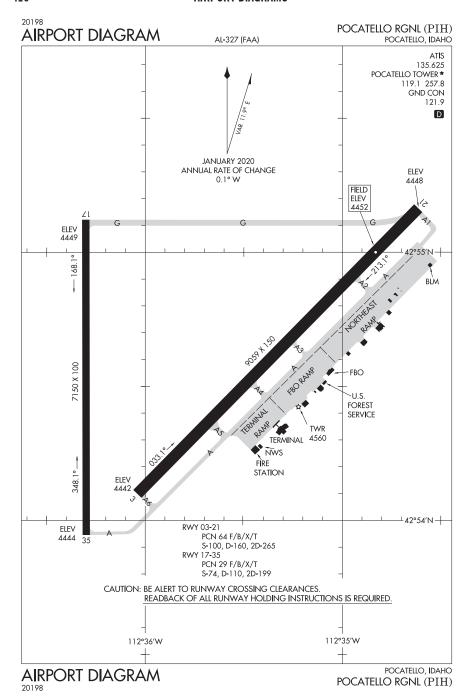
AIRPORT DIAGRAM

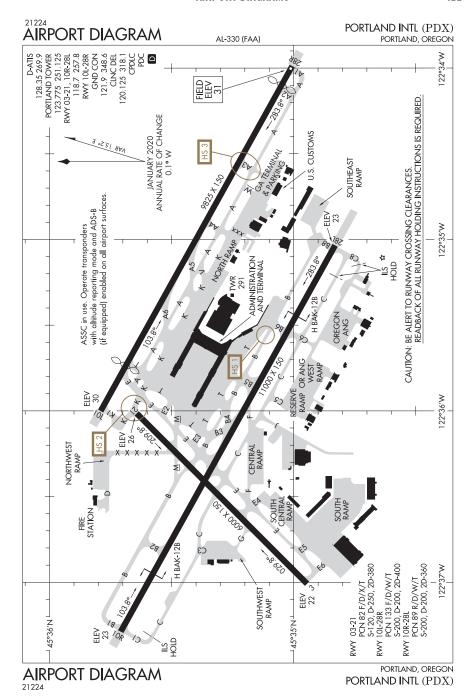
SOUTHWEST OREGON RGNL (OTH)

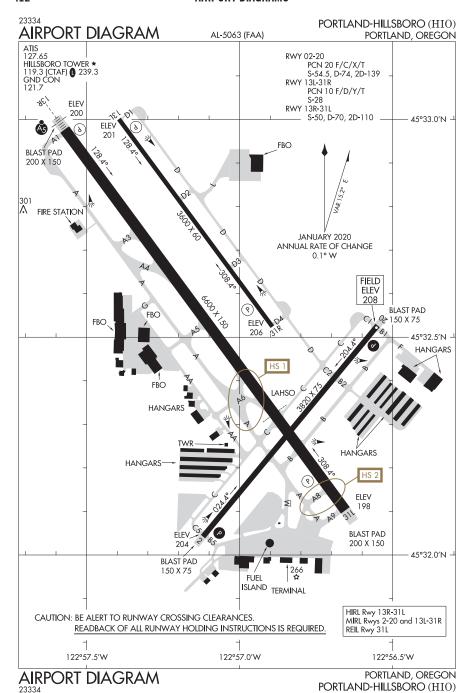




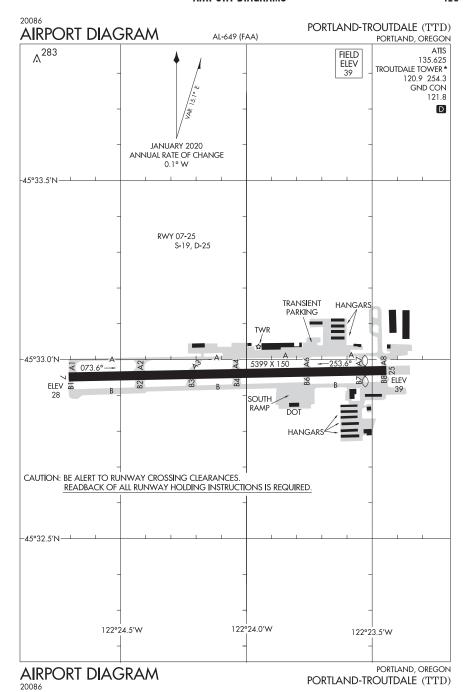


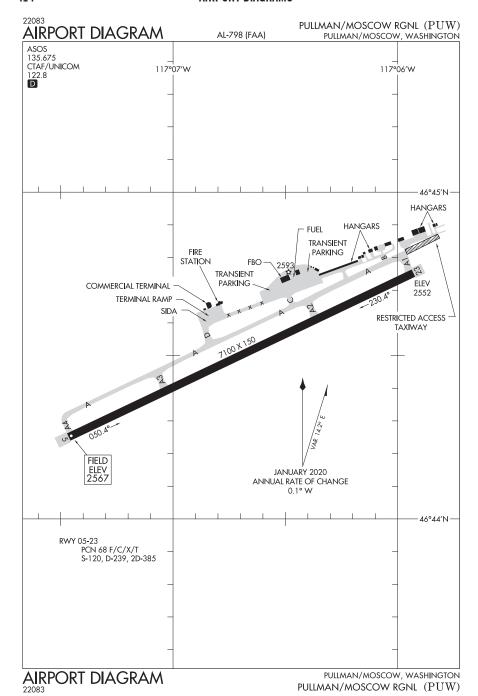


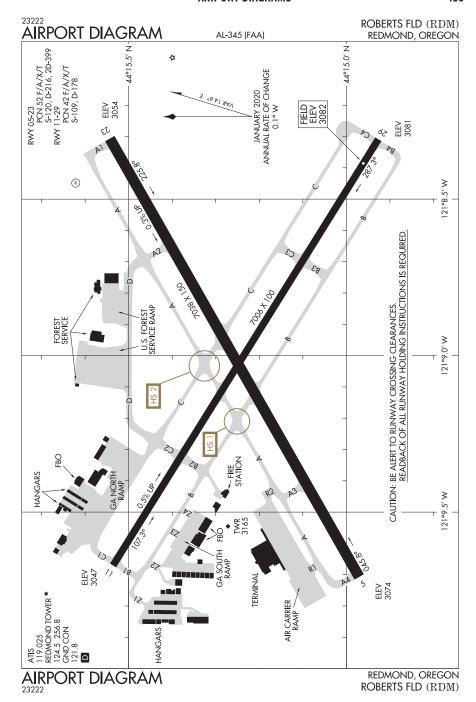


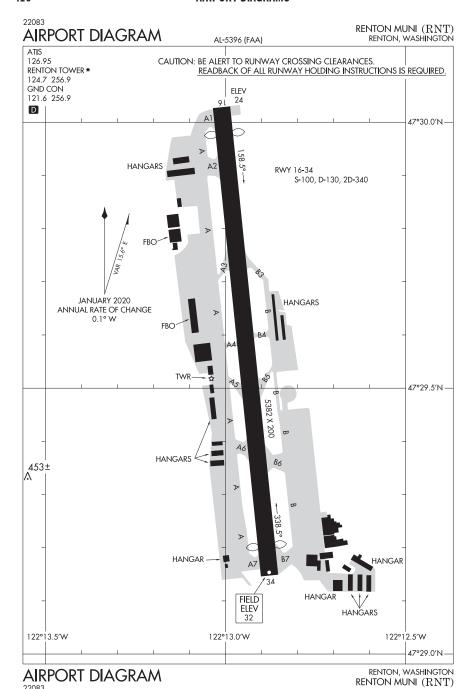


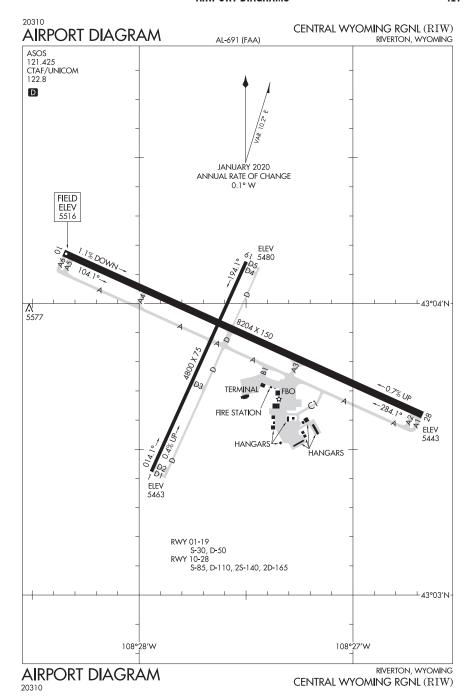
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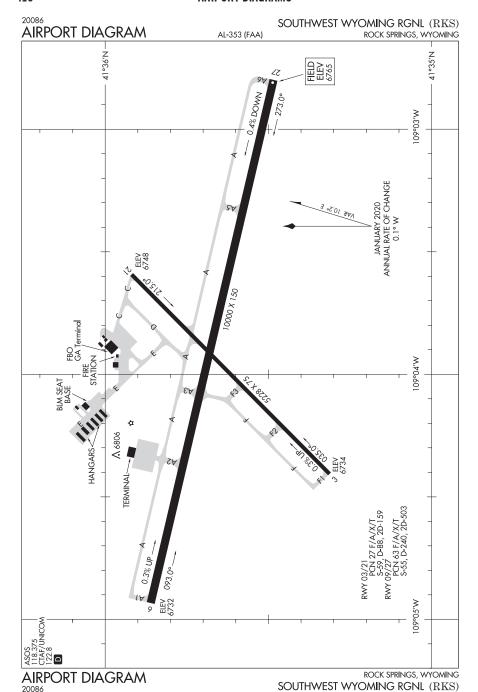


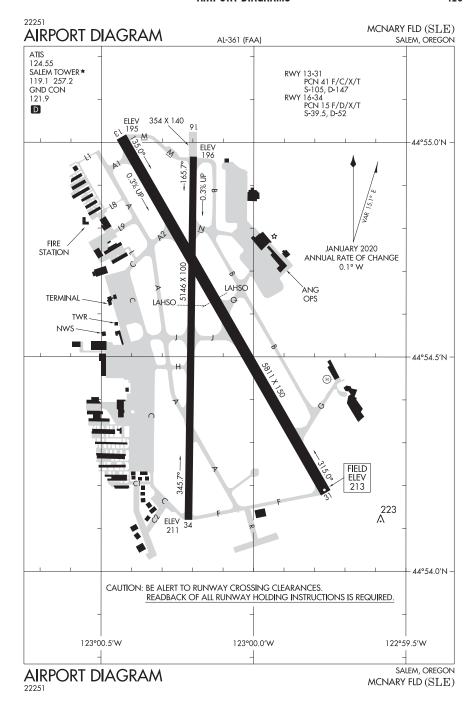


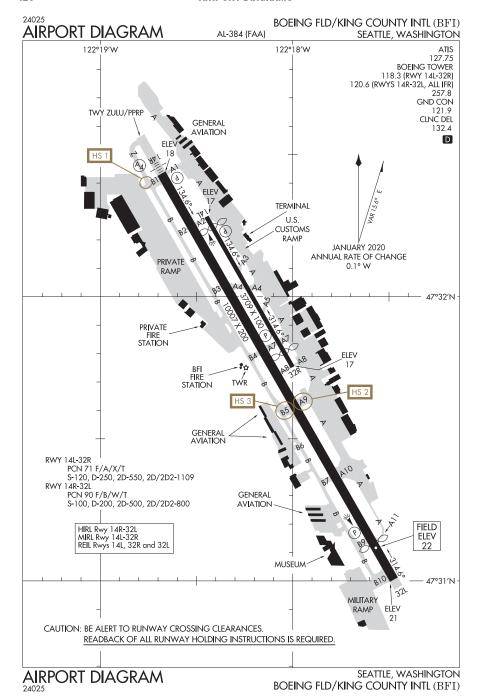


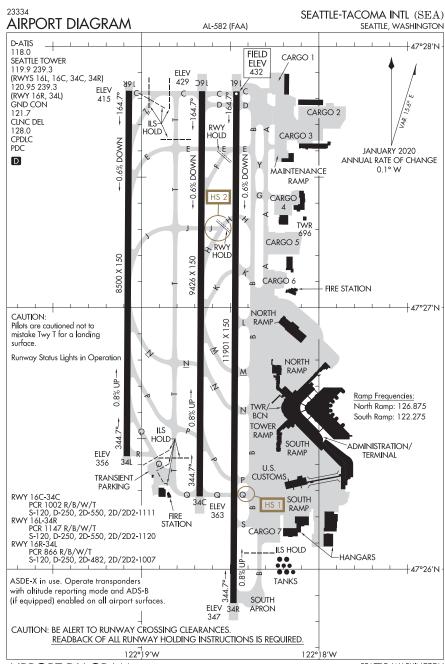






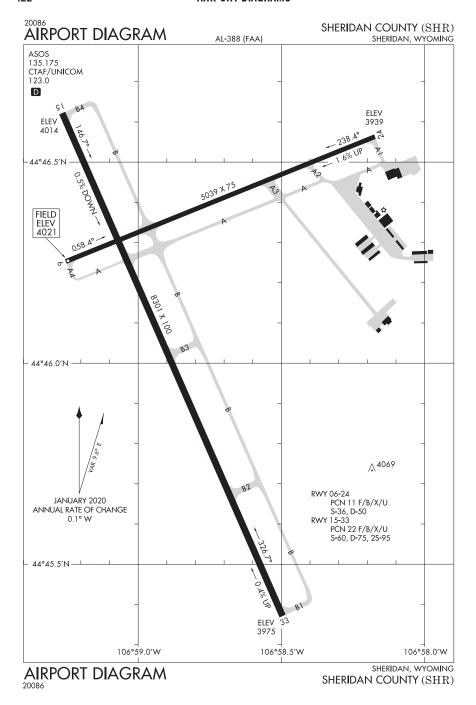


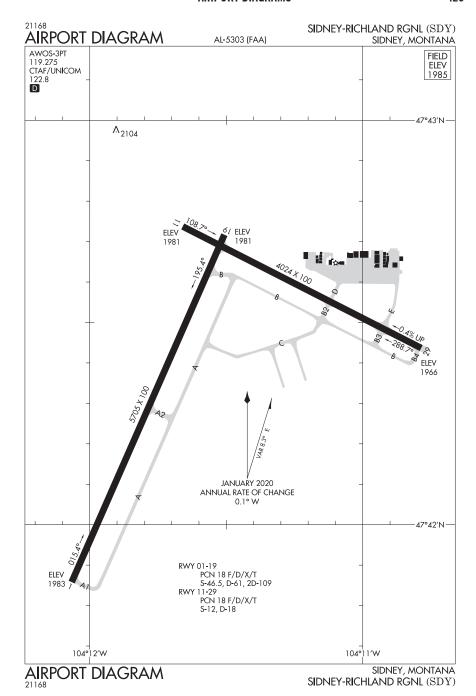


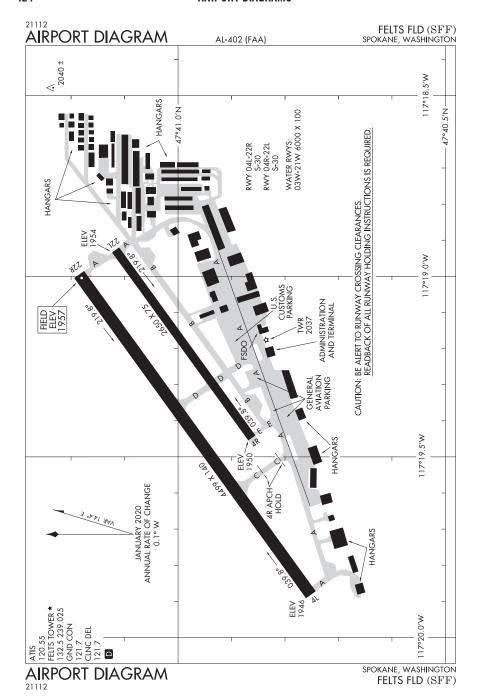


AIRPORT DIAGRAM

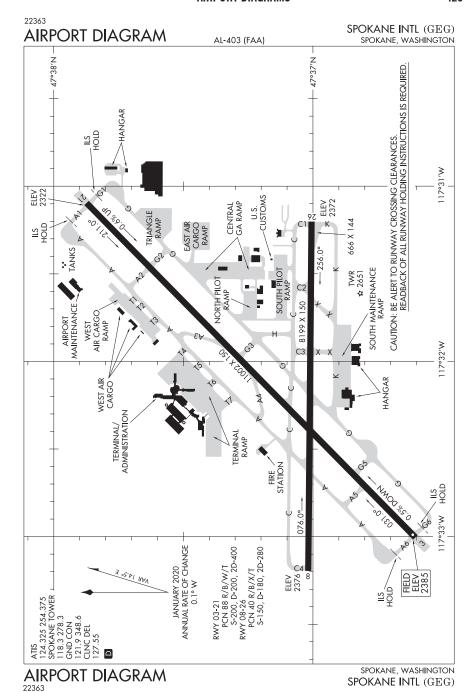
SEATTLE-TACOMA INTL (SEA)

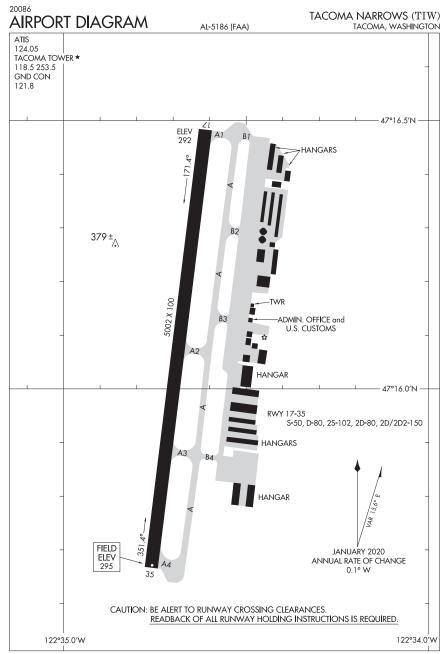






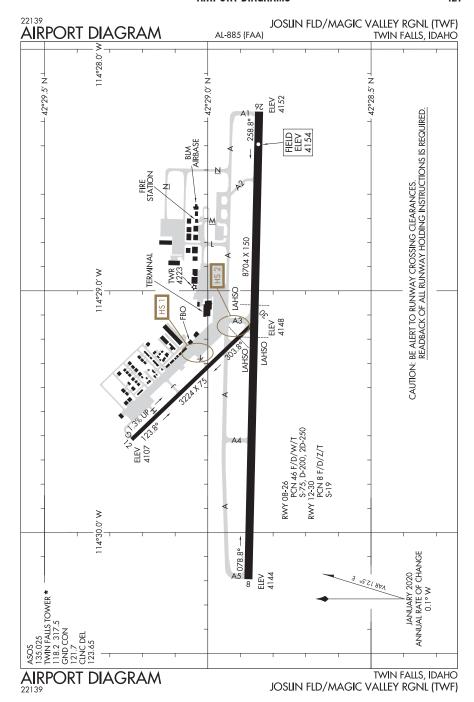
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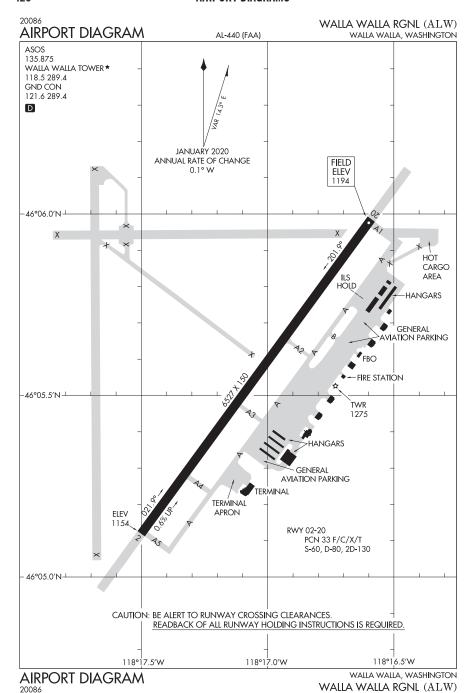




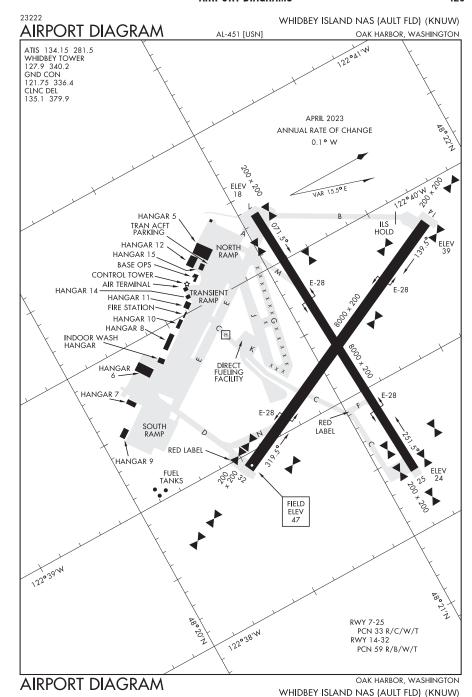
AIRPORT DIAGRAM

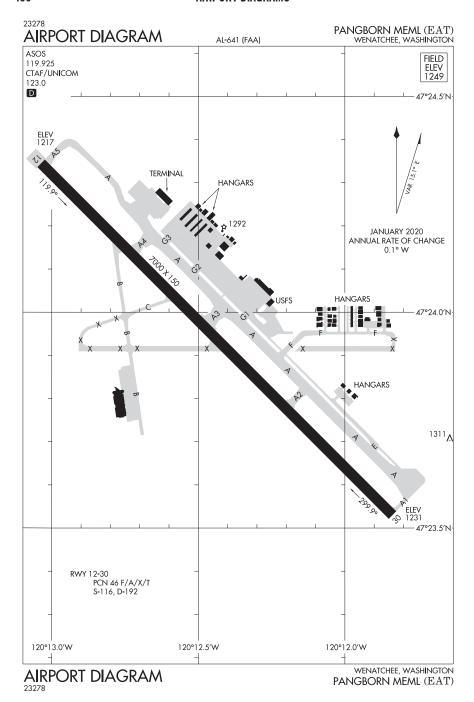
TACOMA, WASHINGTON TACOMA NARROWS (TIW)

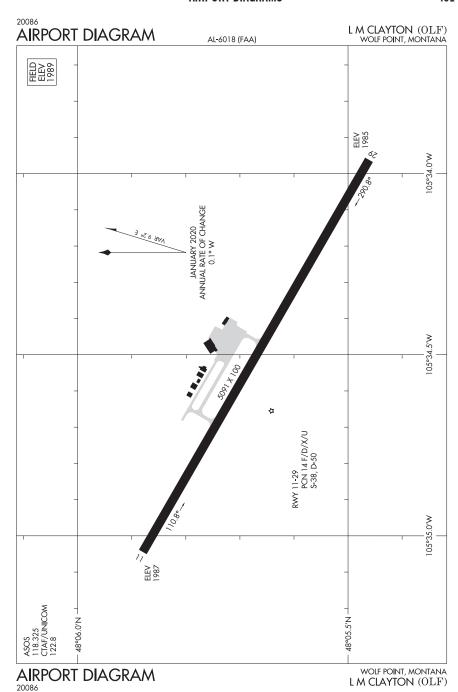


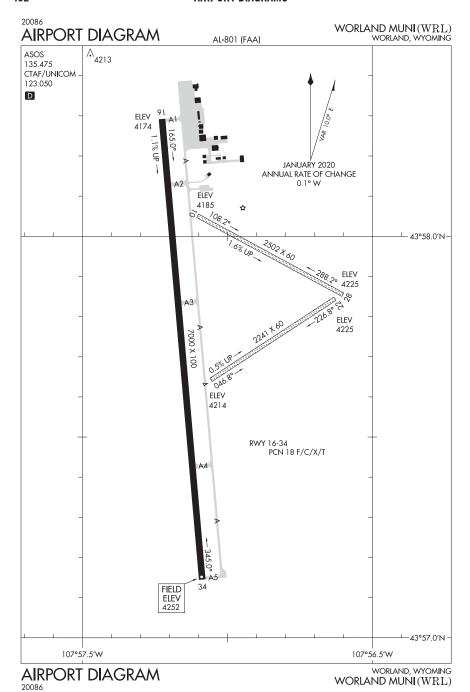


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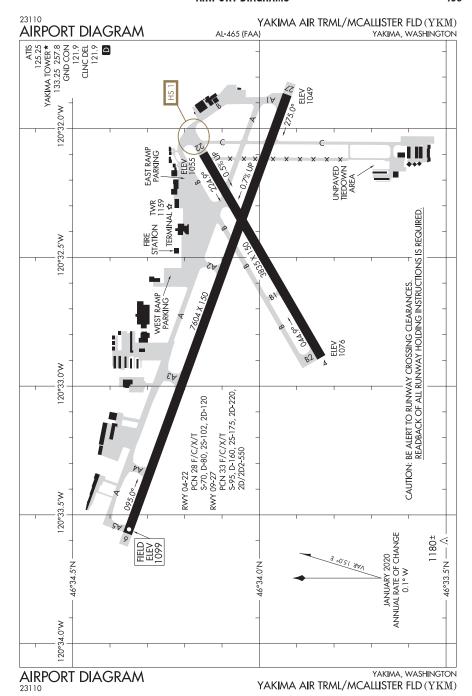








NW, 25 JAN 2024 to 21 MAR 2024



Submitting Pilot Weather Reports (PIREPs)

- 1. UA Routine PIREP / UUA Urgent PIREP
- 2. /OV Location: Use Airport or NAVAID identifiers only.
 - Location can be reported as a single fix, radial DME, or a route segment (Fix-Fix)
 Examples: /OV LAX, /OV LAX-SLI120005, /OV PDZ-PSP.
- 3. /TM Time: When conditions occurred or were encountered.

• Use 4 digits in UTC.

Examples: /TM 1645, /TM 0915

- 4. /FL Altitude/Flight Level
 - Use 3 digits for hundreds of feet. If not known, use UNKN.
 - Examples: /FL095, /FL310, /FLUNKN
- 5. /TP Type aircraft: Required if reporting Turbulence or Icing
 - No more than 4 characters, use UNKN if the type is not known.

Examples: /TP P28A, /TP RV8, /TP B738, /TP UNKN

- 6. /SK Sky Condition/Cloud layers:
 - Report cloud coverage using contractions: FEW, SCT, BKN, OVC, SKC
 - Report bases in hundreds of feet: BKN005, SCT015, OVC200
 - If bases are unknown, use UNKN
 - Report cloud tops in hundreds of feet: TOP120

Examples: /SK BKN035, /SK SCT UNKN-TOP125, /SK OVC095-TOP125/ SKC

- 7. /WX Weather: Flight visibility is always reported first. Append FV reported with SM.
 - Report visibility using 2 digits: FV01SM, FV10SM
 - Unrestricted visibility use FV99SM.
 - Use standard weather contractions e.g.: RA, SH, TS, HZ, FG, -, + Examples: /WX FV01SM +SHRA, /WX FV10 SM -RA BR.
- 8. /TA Air temperature (Celsius): Required when reporting icing
 - · 2 digits, unless below zero, then prefix digits with M.

Examples:/TA 15, /TA 04 /TA M06

9. /WV - Wind: Direction in 3 digits, speed in 3 or 4 digits, followed by KT.

Examples: /WV 270045KT, /WV 080110KT

10. /TB - Turbulence:

- Report intensity using LGT, MOD, SEV, or EXTRM
- Report duration using INTMT, OCNL or CONS when reported by pilot.
- Report type using CAT or CHOP when reported by pilot.
- Include altitude only if different from /FL.
- Use ABV or BLO when limits are not defined.
- Use NEG if turbulence is not encountered.

Examples: /TB OCNL MOD, /TB LGT CHOP, /LGT 060, /TB MOD BLO 090, / TB NEG

11. /IC - Icing:

- Report intensity using TRACE, LGT, MOD or SEV
- Report type using RIME,CLR, or MX
- Include altitude only if different than /FL.
- Use NEG if icing not encountered.

Examples: /IC LGT-MOD RIME, /IC SEV CLR 028-045, /IC NEG

- 12. /RM Remarks: Use to report phenomena that does not fit in any other field.
 - Report the most hazardous element first.
 - Name of geographic location from /OV field fix.
 Examples: /RM LLWS +/-15KT SFC-003 DURC RWY22 JFK

/RM MTN WAVE, /RM DURC, /RM DURD, /RM MULLAN PASS

/RM BA RWY 02L BA MEDIUM TO POOR 3IN DRY SN OVER COMPACTED

SI

Examples of Completed PIREPS

UA /OV RFD /TM 1315 /FL160 /TP PA44 /SK OVC025-TOP095/OVC150 /TA M12 /TB INTMT LGT CHOP UA /OV DHT360015-AMA /TM 2116 /FL050 /TP PA32 /SK BKN090 /WX FV05SM –RA /TA 04 /TB LGT /IC NEG

UUA /OV PDZ010018 /TM 1520 /FL125 /TP C172 /WV 270048KT TB SEV 055-085 /RM CAJON PASS

*

PIREP FORM

3 or 4 letter Identifier

	1. UA
	Routine Urgent
2. /OV	Location
3. /TM	Time
4. /FL	Altitude/Flight Level
5. /TP	Aircraft Type
Items 1 through 5 are mandatory for all PIREPs	
6. /SK	Sky Condition
7. /WX	Flight Visibility & Weather
8. /TA	Temperature (Celsius)
9. /WV	Wind
10. /TB	Turbulence
11. /IC	Icing
12. /RM	Remarks

FAA Form 7110-2 (9/19) Supersedes Previous Edition